Inventor. Peter A. Leeds et al.
Serial No.
Filed: February 15, 2002
Title Management Systems and Methods for Maximizing Return on Assets
Attorney Docket L9090/269380
Attorney Geoff L Sutcliffe
Phone 404 815 6530
Sheet 1 of 47

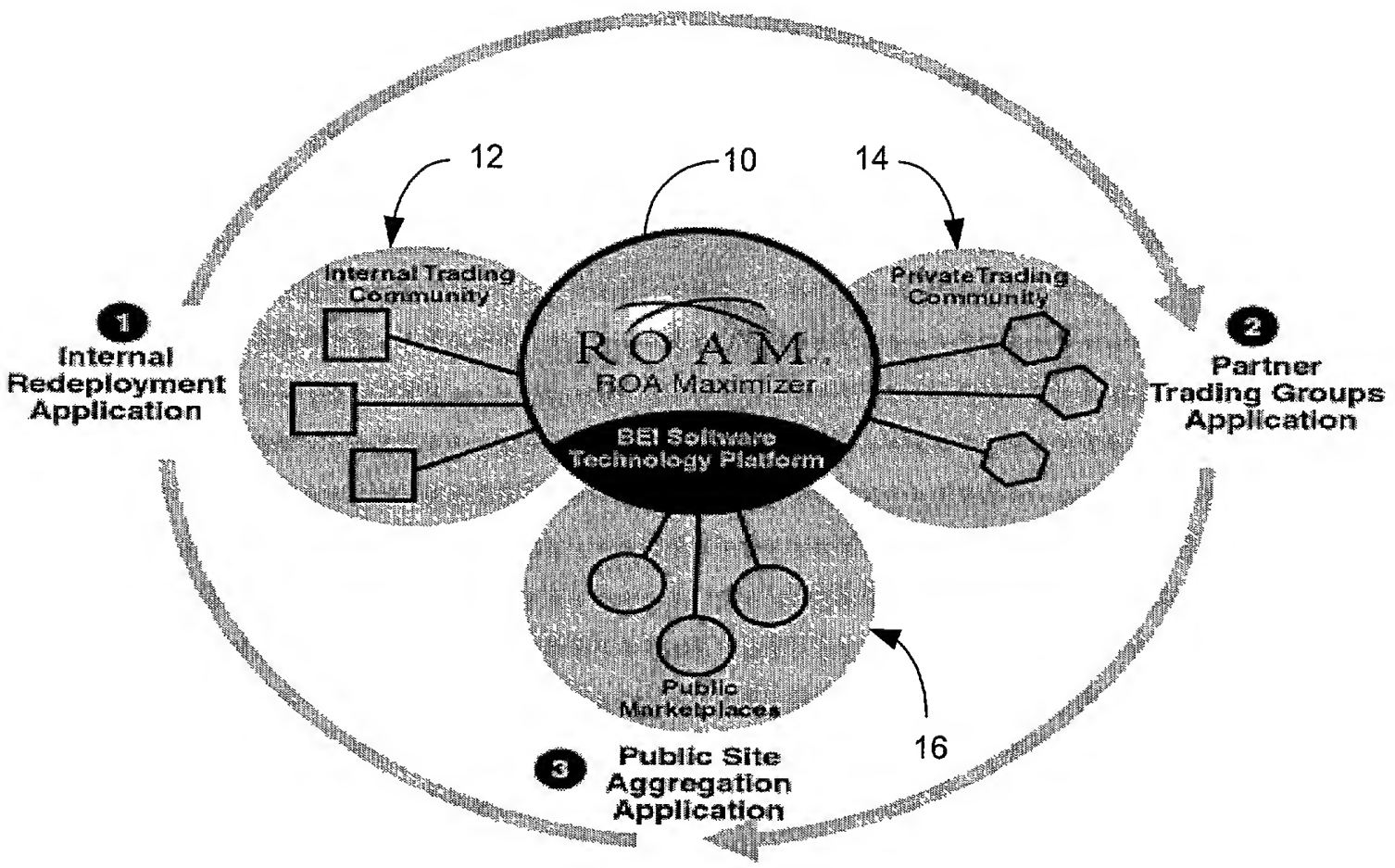
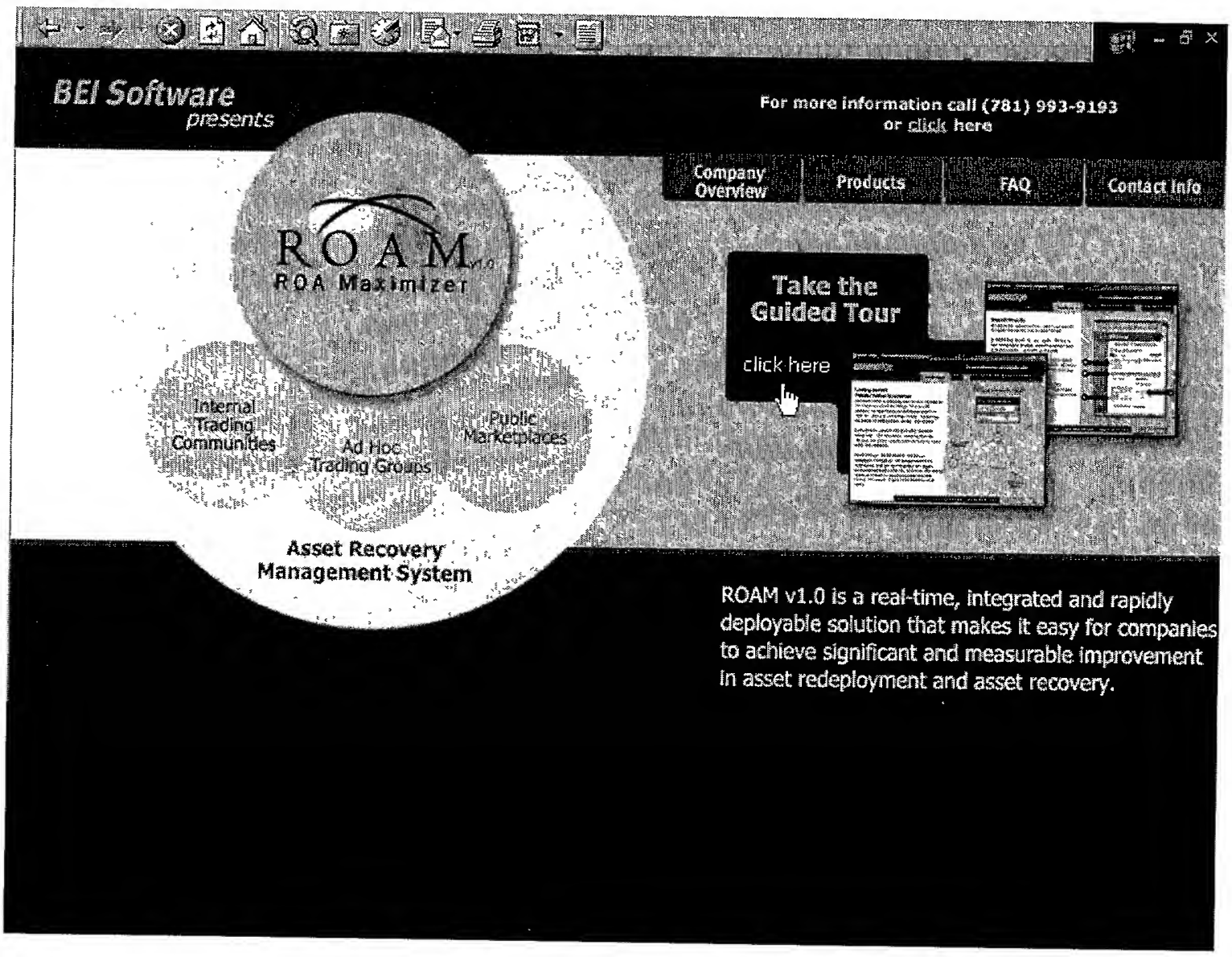


FIGURE 1


BEI Software
presents
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Company Overview
Products
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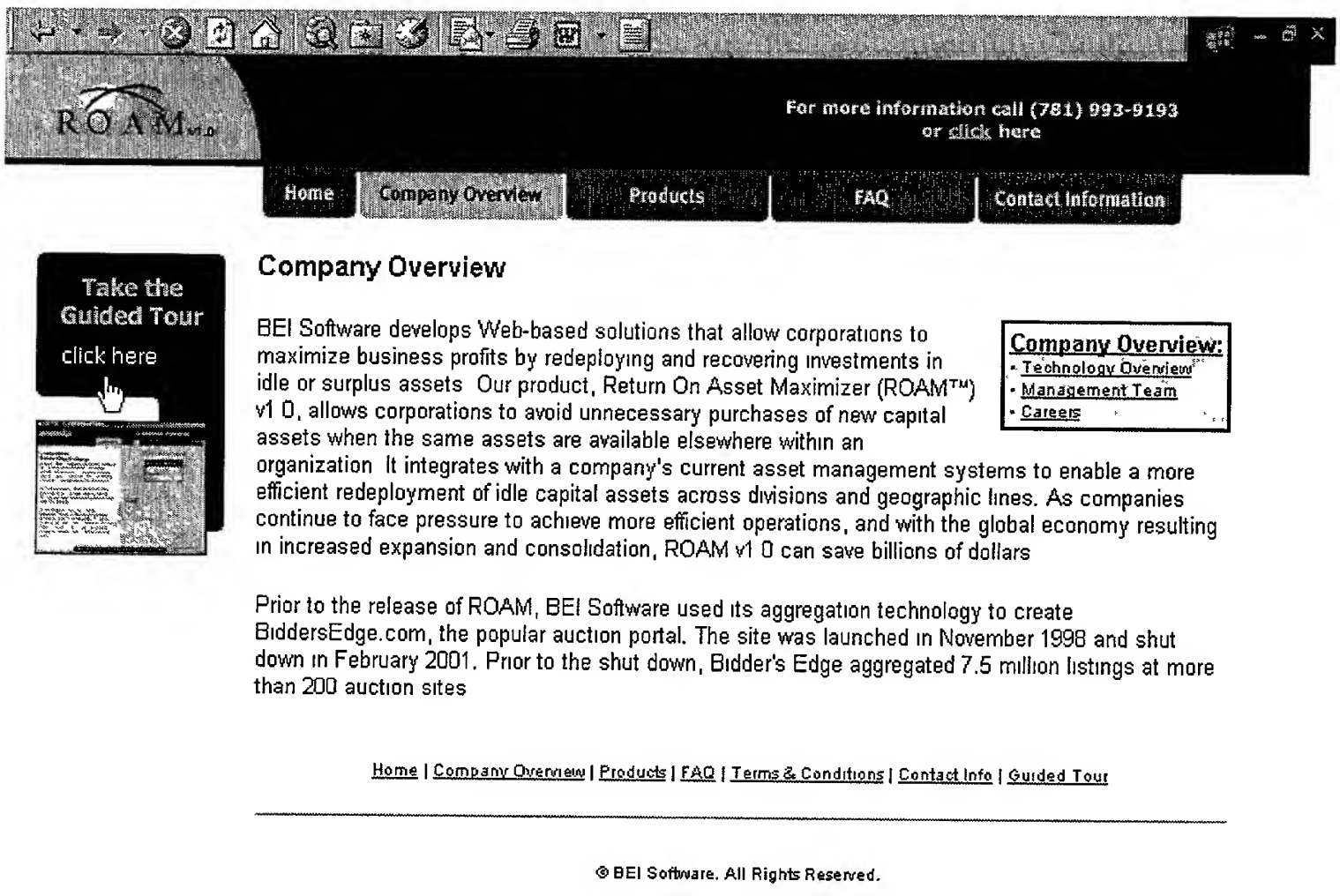
ROAM v1.0
ROA Maximizer
Take the Guided Tour
click here
Internal Trading Communities
Ad Hoc Trading Groups
Public Marketplaces
Asset Recovery Management System
ROAM v1.0 is a real-time, integrated and rapidly deployable solution that makes it easy for companies to achieve significant and measurable improvement in asset redeployment and asset recovery.

FIGURE 2(A)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Company Overview
BEI Software develops Web-based solutions that allow corporations to maximize business profits by redeploying and recovering investments in idle or surplus assets Our product, Return On Asset Maximizer (ROAM™) v1 0, allows corporations to avoid unnecessary purchases of new capital assets when the same assets are available elsewhere within an organization It integrates with a company's current asset management systems to enable a more efficient redeployment of idle capital assets across divisions and geographic lines. As companies continue to face pressure to achieve more efficient operations, and with the global economy resulting in increased expansion and consolidation, ROAM v1 0 can save billions of dollars
Company Overview:
• Technology Overview
• Management Team
• Careers
Prior to the release of ROAM, BEI Software used its aggregation technology to create BiddersEdge.com, the popular auction portal. The site was launched in November 1998 and shut down in February 2001. Prior to the shut down, Bidder's Edge aggregated 7.5 million listings at more than 200 auction sites
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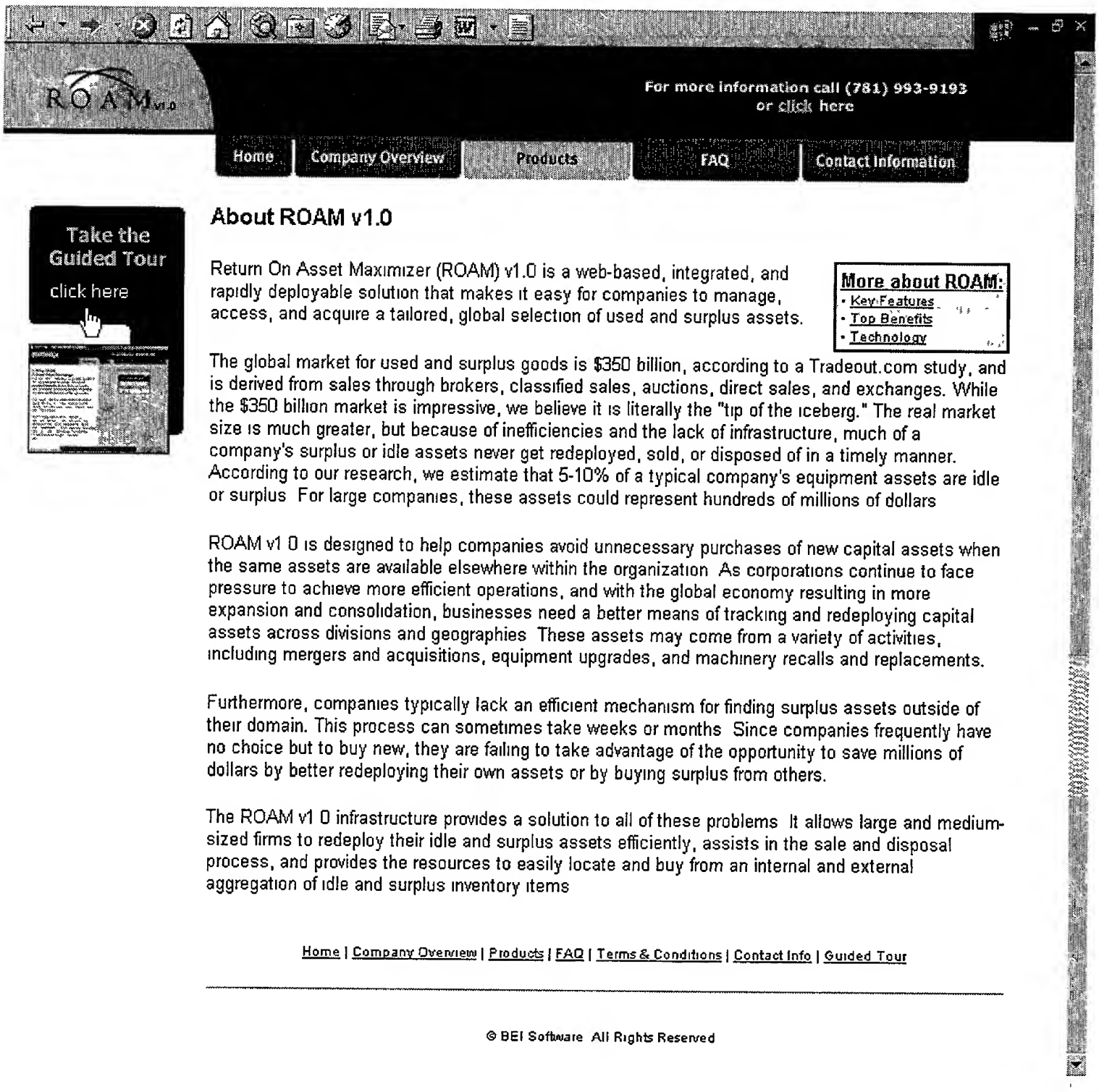
FIGURE 2(B)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About ROAM v1.0
Return On Asset Maximizer (ROAM) v1.0 is a web-based, integrated, and rapidly deployable solution that makes it easy for companies to manage, access, and acquire a tailored, global selection of used and surplus assets.
More about ROAM:
• Key Features
• Top Benefits
• Technology
The global market for used and surplus goods is $350 billion, according to a Tradeout.com study, and is derived from sales through brokers, classified sales, auctions, direct sales, and exchanges. While the $350 billion market is impressive, we believe it is literally the "tip of the iceberg." The real market size is much greater, but because of inefficiencies and the lack of infrastructure, much of a company's surplus or idle assets never get redeployed, sold, or disposed of in a timely manner. According to our research, we estimate that 5-10% of a typical company's equipment assets are idle or surplus. For large companies, these assets could represent hundreds of millions of dollars
ROAM v1.0 is designed to help companies avoid unnecessary purchases of new capital assets when the same assets are available elsewhere within the organization. As corporations continue to face pressure to achieve more efficient operations, and with the global economy resulting in more expansion and consolidation, businesses need a better means of tracking and redeploying capital assets across divisions and geographies. These assets may come from a variety of activities, including mergers and acquisitions, equipment upgrades, and machinery recalls and replacements.
Furthermore, companies typically lack an efficient mechanism for finding surplus assets outside of their domain. This process can sometimes take weeks or months. Since companies frequently have no choice but to buy new, they are failing to take advantage of the opportunity to save millions of dollars by better redeploying their own assets or by buying surplus from others.
The ROAM v1.0 infrastructure provides a solution to all of these problems. It allows large and medium-sized firms to redeploy their idle and surplus assets efficiently, assists in the sale and disposal process, and provides the resources to easily locate and buy from an internal and external aggregation of idle and surplus inventory items
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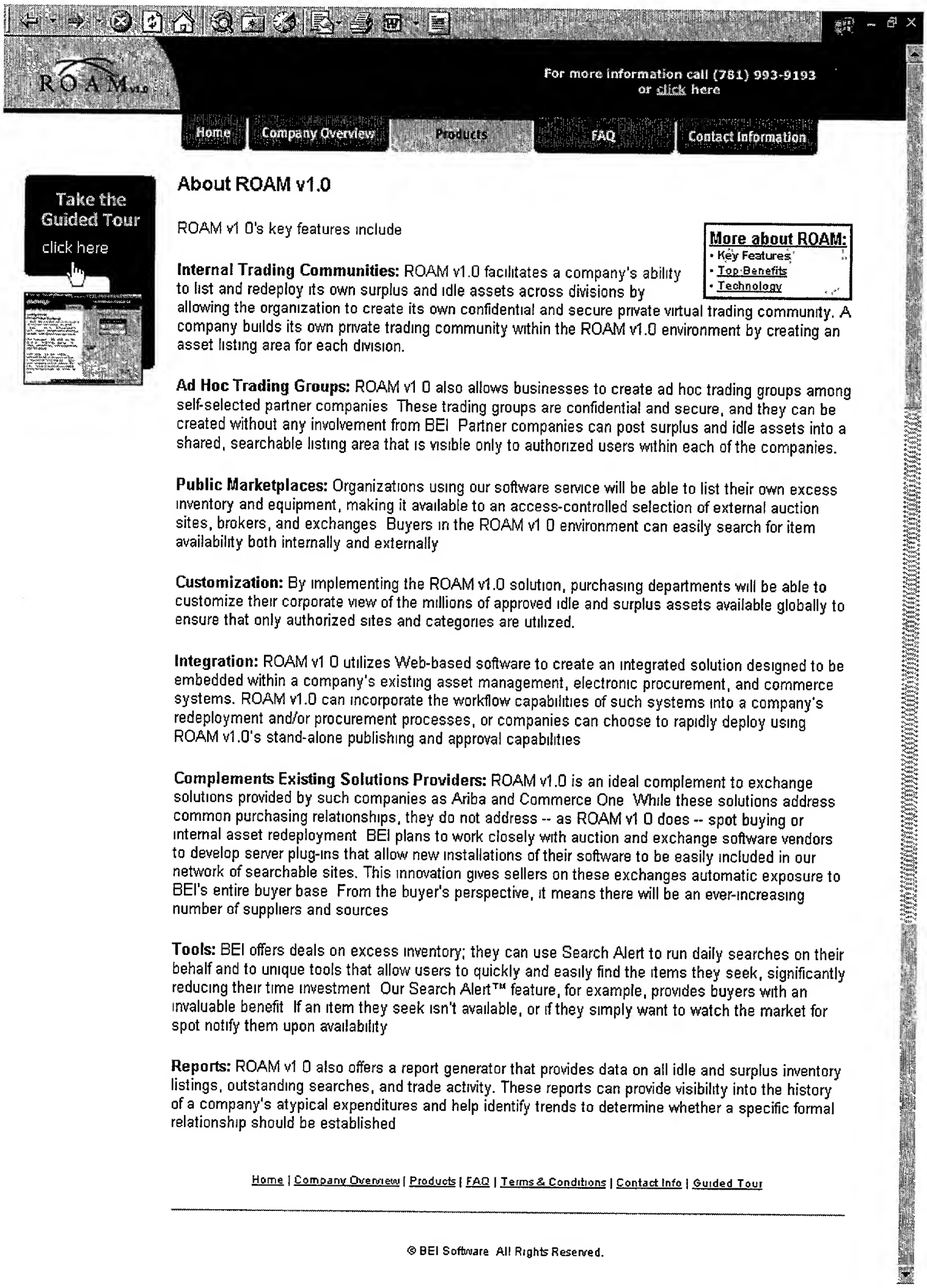
FIGURE 2(C)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About ROAM v1.0
ROAM v1 0's key features include
More about ROAM:
• Key Features
• Top Benefits
• Technology
Internal Trading Communities: ROAM v1.0 facilitates a company's ability to list and redeploy its own surplus and idle assets across divisions by allowing the organization to create its own confidential and secure private virtual trading community. A company builds its own private trading community within the ROAM v1.0 environment by creating an asset listing area for each division.
Ad Hoc Trading Groups: ROAM v1 0 also allows businesses to create ad hoc trading groups among self-selected partner companies These trading groups are confidential and secure, and they can be created without any involvement from BEI Partner companies can post surplus and idle assets into a shared, searchable listing area that is visible only to authorized users within each of the companies.
Public Marketplaces: Organizations using our software service will be able to list their own excess inventory and equipment, making it available to an access-controlled selection of external auction sites, brokers, and exchanges Buyers in the ROAM v1 0 environment can easily search for item availability both internally and externally
Customization: By implementing the ROAM v1.0 solution, purchasing departments will be able to customize their corporate view of the millions of approved idle and surplus assets available globally to ensure that only authorized sites and categories are utilized.
Integration: ROAM v1 0 utilizes Web-based software to create an integrated solution designed to be embedded within a company's existing asset management, electronic procurement, and commerce systems. ROAM v1.0 can incorporate the workflow capabilities of such systems into a company's redeployment and/or procurement processes, or companies can choose to rapidly deploy using ROAM v1.0's stand-alone publishing and approval capabilities
Complements Existing Solutions Providers: ROAM v1.0 is an ideal complement to exchange solutions provided by such companies as Ariba and Commerce One While these solutions address common purchasing relationships, they do not address -- as ROAM v1 0 does -- spot buying or internal asset redeployment BEI plans to work closely with auction and exchange software vendors to develop server plug-ins that allow new installations of their software to be easily included in our network of searchable sites. This innovation gives sellers on these exchanges automatic exposure to BEI's entire buyer base From the buyer's perspective, it means there will be an ever-increasing number of suppliers and sources
Tools: BEI offers deals on excess inventory; they can use Search Alert to run daily searches on their behalf and to unique tools that allow users to quickly and easily find the items they seek, significantly reducing their time investment Our Search Alert™ feature, for example, provides buyers with an invaluable benefit If an item they seek isn't available, or if they simply want to watch the market for spot notify them upon availability
Reports: ROAM v1 0 also offers a report generator that provides data on all idle and surplus inventory listings, outstanding searches, and trade activity. These reports can provide visibility into the history of a company's atypical expenditures and help identify trends to determine whether a specific formal relationship should be established
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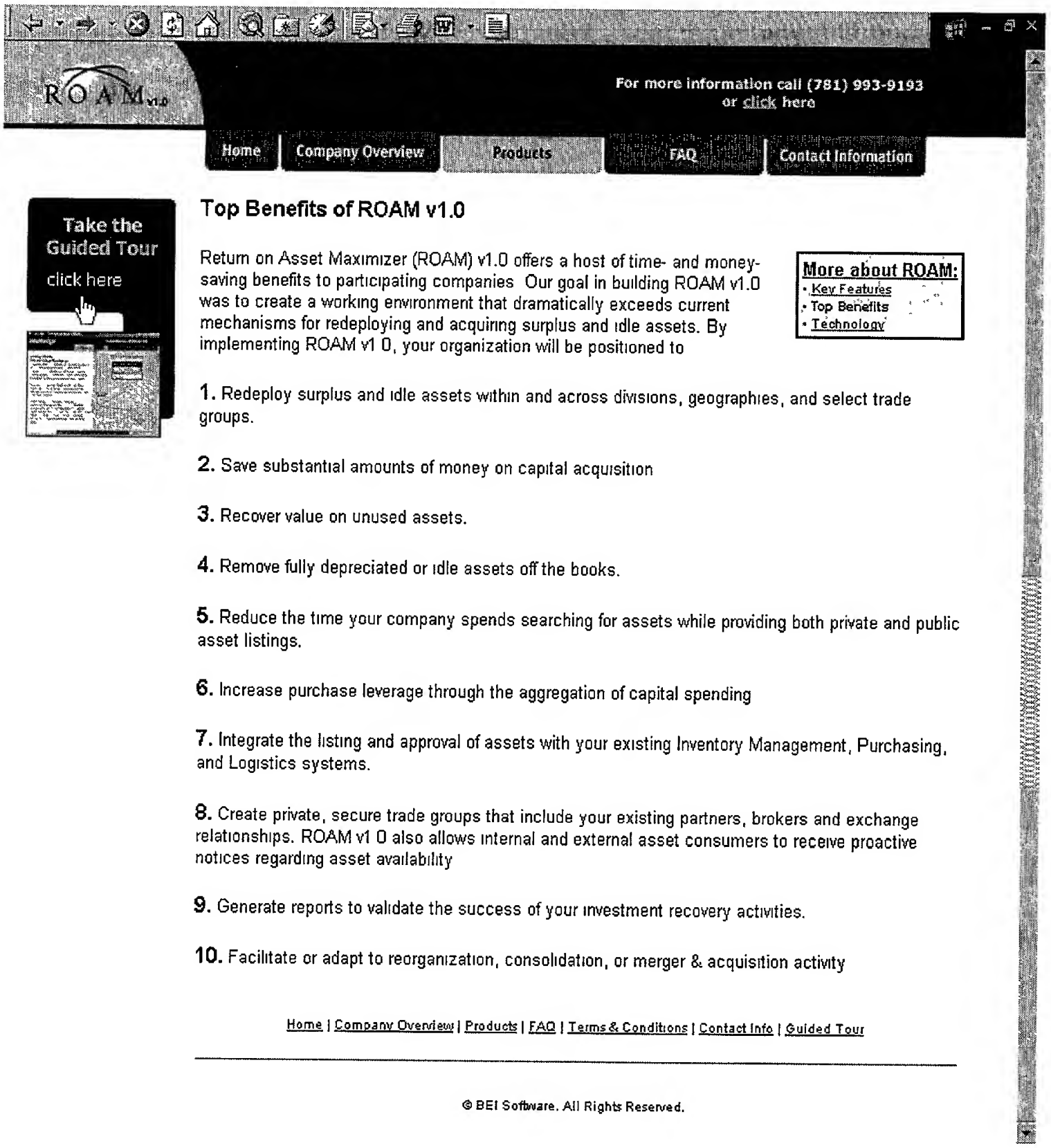
FIGURE 2(D)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Top Benefits of ROAM v1.0
Return on Asset Maximizer (ROAM) v1.0 offers a host of time- and money-saving benefits to participating companies Our goal in building ROAM v1.0 was to create a working environment that dramatically exceeds current mechanisms for redeploying and acquiring surplus and idle assets. By implementing ROAM v1 0, your organization will be positioned to
More about ROAM:
• Key Features
• Top Benefits
• Technology
1. Redeploy surplus and idle assets within and across divisions, geographies, and select trade groups.
2. Save substantial amounts of money on capital acquisition
3. Recover value on unused assets.
4. Remove fully depreciated or idle assets off the books.
5. Reduce the time your company spends searching for assets while providing both private and public asset listings.
6. Increase purchase leverage through the aggregation of capital spending
7. Integrate the listing and approval of assets with your existing Inventory Management, Purchasing, and Logistics systems.
8. Create private, secure trade groups that include your existing partners, brokers and exchange relationships. ROAM v1 0 also allows internal and external asset consumers to receive proactive notices regarding asset availability
9. Generate reports to validate the success of your investment recovery activities.
10. Facilitate or adapt to reorganization, consolidation, or merger & acquisition activity
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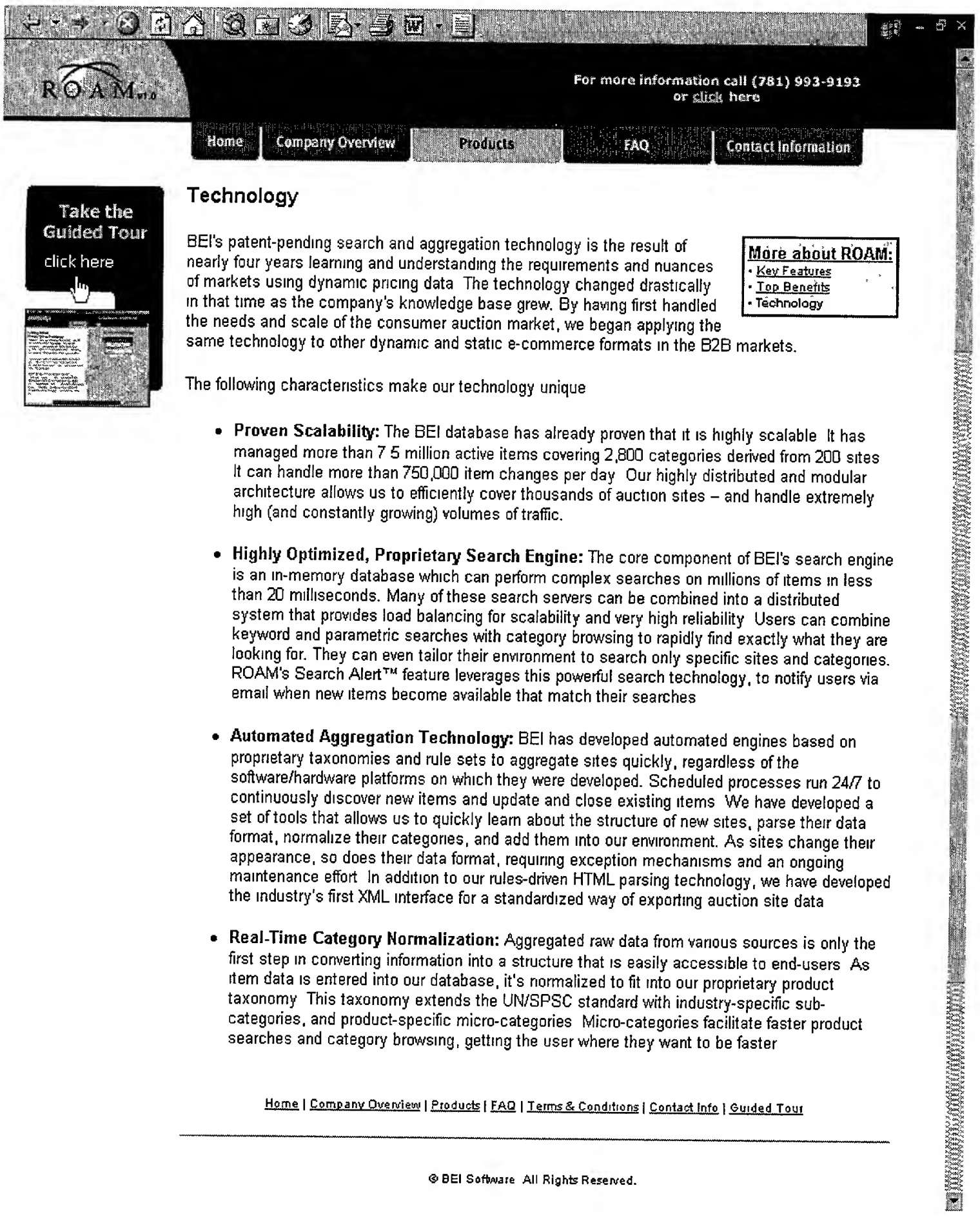
FIGURE 2(E)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Technology
More about ROAM:
• Key Features
• Top Benefits
• Technology
BEI's patent-pending search and aggregation technology is the result of nearly four years learning and understanding the requirements and nuances of markets using dynamic pricing data The technology changed drastically in that time as the company's knowledge base grew. By having first handled the needs and scale of the consumer auction market, we began applying the same technology to other dynamic and static e-commerce formats in the B2B markets.
The following characteristics make our technology unique
• Proven Scalability: The BEI database has already proven that it is highly scalable It has managed more than 7 5 million active items covering 2,800 categories derived from 200 sites It can handle more than 750,000 item changes per day Our highly distributed and modular architecture allows us to efficiently cover thousands of auction sites – and handle extremely high (and constantly growing) volumes of traffic.
• Highly Optimized, Proprietary Search Engine: The core component of BEI's search engine is an in-memory database which can perform complex searches on millions of items in less than 20 milliseconds. Many of these search servers can be combined into a distributed system that provides load balancing for scalability and very high reliability Users can combine keyword and parametric searches with category browsing to rapidly find exactly what they are looking for. They can even tailor their environment to search only specific sites and categories. ROAM's Search Alert™ feature leverages this powerful search technology, to notify users via email when new items become available that match their searches
• Automated Aggregation Technology: BEI has developed automated engines based on proprietary taxonomies and rule sets to aggregate sites quickly, regardless of the software/hardware platforms on which they were developed. Scheduled processes run 24/7 to continuously discover new items and update and close existing items We have developed a set of tools that allows us to quickly learn about the structure of new sites, parse their data format, normalize their categories, and add them into our environment. As sites change their appearance, so does their data format, requiring exception mechanisms and an ongoing maintenance effort In addition to our rules-driven HTML parsing technology, we have developed the industry's first XML interface for a standardized way of exporting auction site data
• Real-Time Category Normalization: Aggregated raw data from various sources is only the first step in converting information into a structure that is easily accessible to end-users As item data is entered into our database, it's normalized to fit into our proprietary product taxonomy This taxonomy extends the UN/SPSC standard with industry-specific sub-categories, and product-specific micro-categories Micro-categories facilitate faster product searches and category browsing, getting the user where they want to be faster
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FIGURE 2(F)

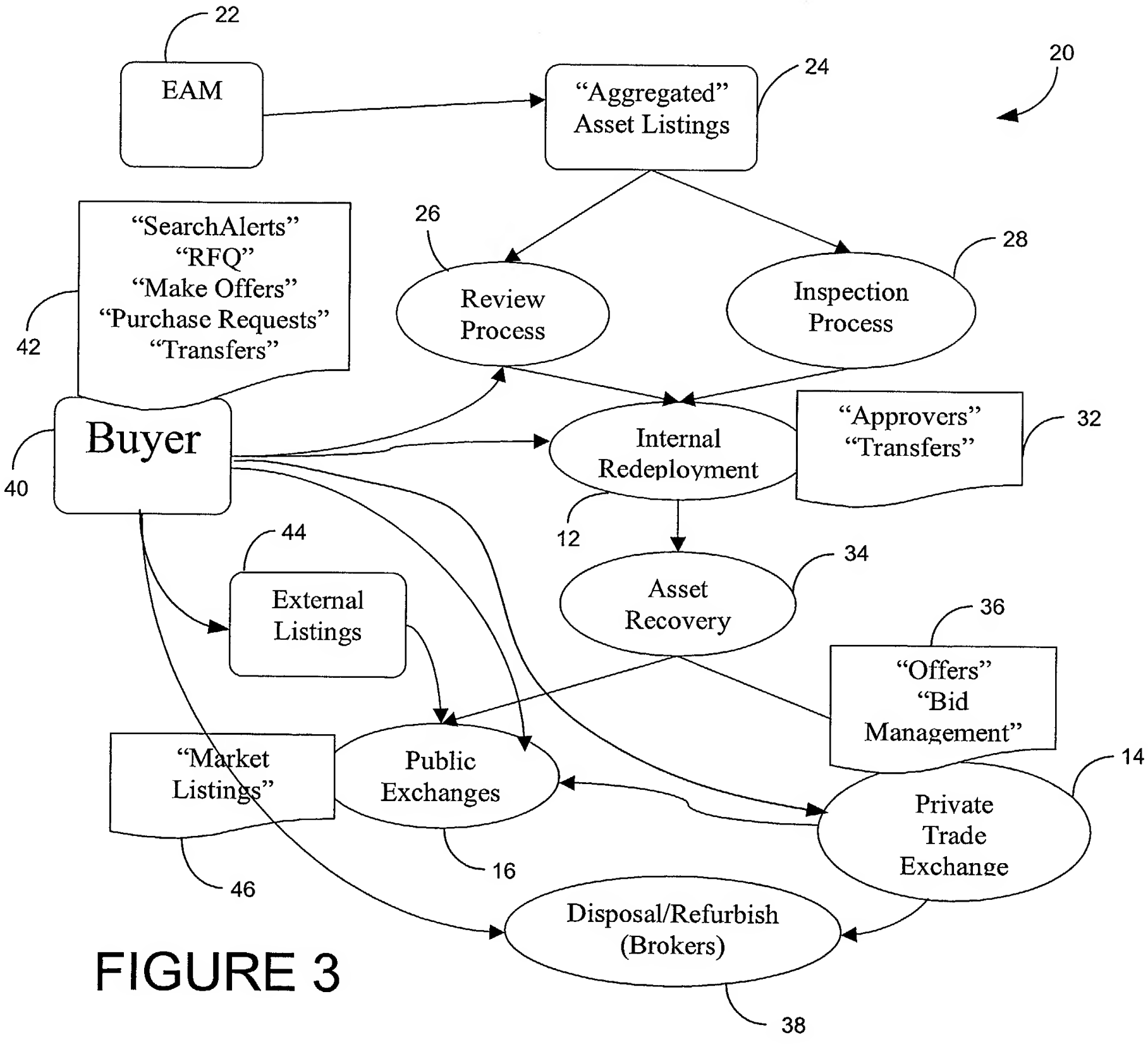

FIGURE 3

Inventor: Peter A. Leeds et al.
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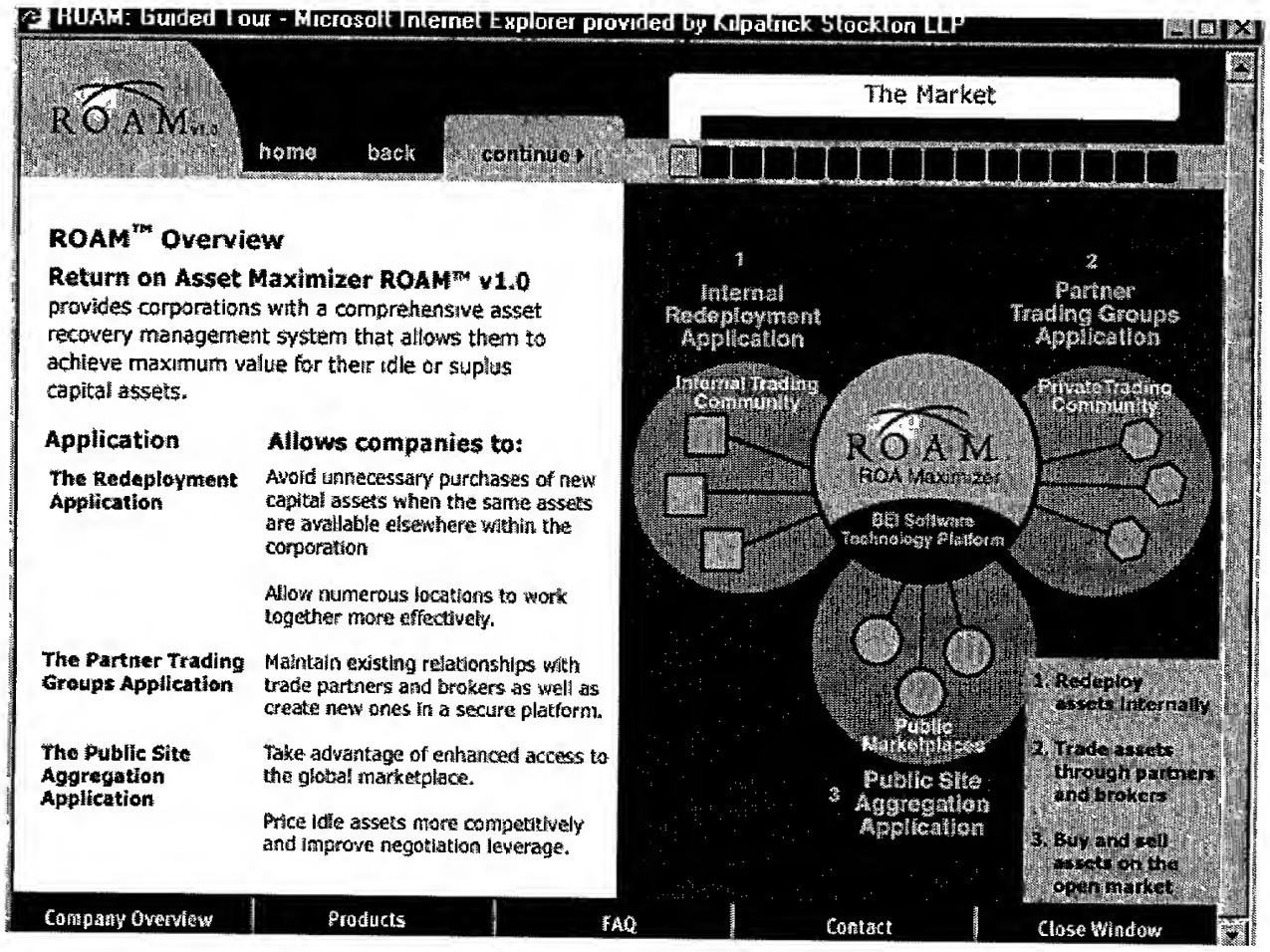
Attorney Docket L9090/269380
Attorney Geoff L. Sutcliffe
Phone 404 815 6530


ROAM: Guided Tour - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP
ROAM v1.0
home
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The Market
ROAM™ Overview
Return on Asset Maximizer ROAM™ v1.0 provides corporations with a comprehensive asset recovery management system that allows them to achieve maximum value for their idle or suplus capital assets.
Application
Allows companies to:
The Redeployment Application
Avoid unnecessary purchases of new capital assets when the same assets are available elsewhere within the corporation
Allow numerous locations to work together more effectively.
The Partner Trading Groups Application
Maintain existing relationships with trade partners and brokers as well as create new ones in a secure platform.
The Public Site Aggregation Application
Take advantage of enhanced access to the global marketplace.
Price idle assets more competitively and improve negotiation leverage.
1 Internal Redeployment Application
2 Partner Trading Groups Application
Internal Trading Community
Private Trading Community
ROAM
ROA Maximizer
BEI Software Technology Platform
Public Marketplace
3 Public Site Aggregation Application
1. Redeploy assets internally
2. Trade assets through partners and brokers
3. Buy and sell assets on the open market
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FIGURE 4

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Phone 404 815 6530
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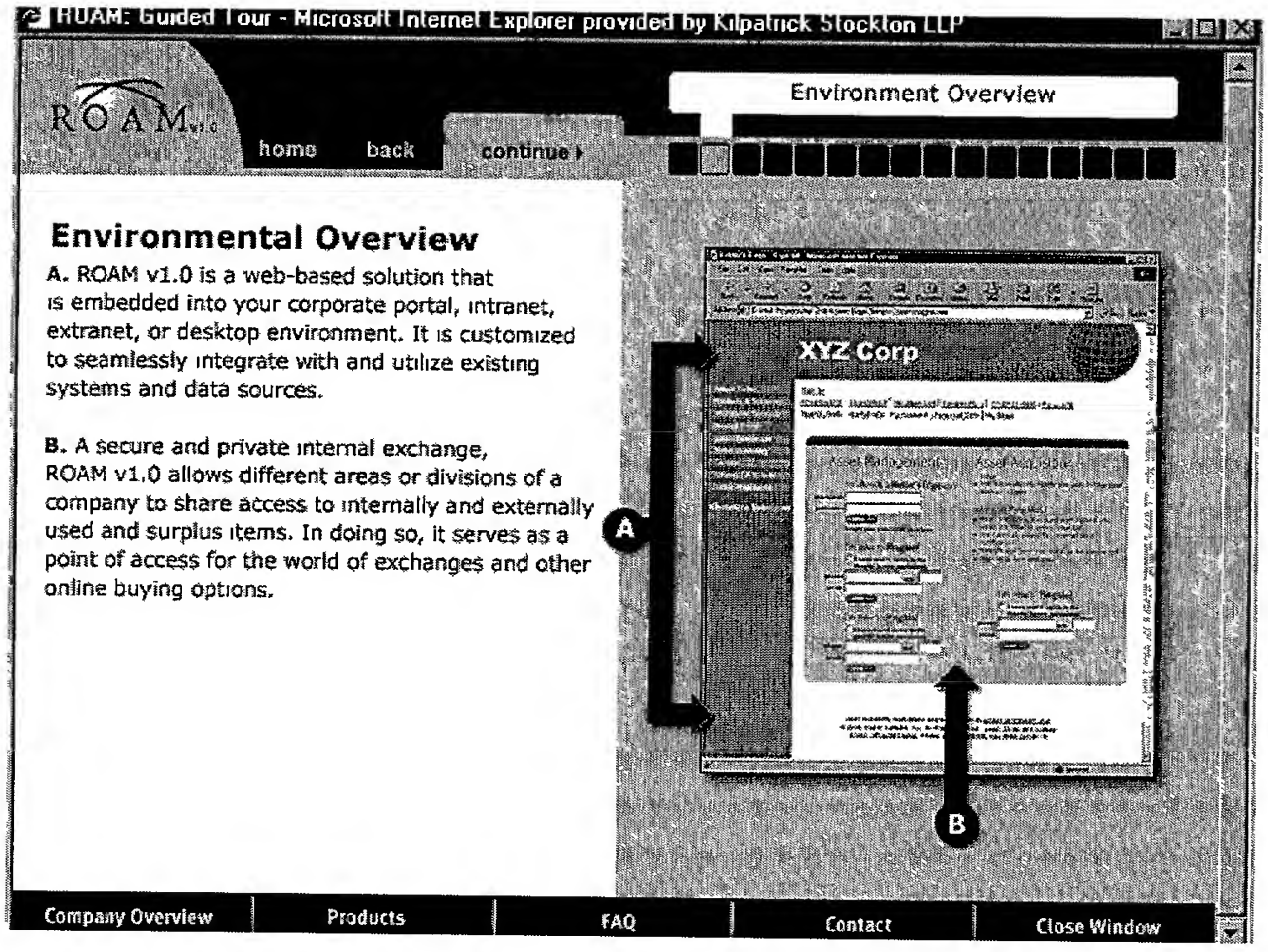

FIGURE 5

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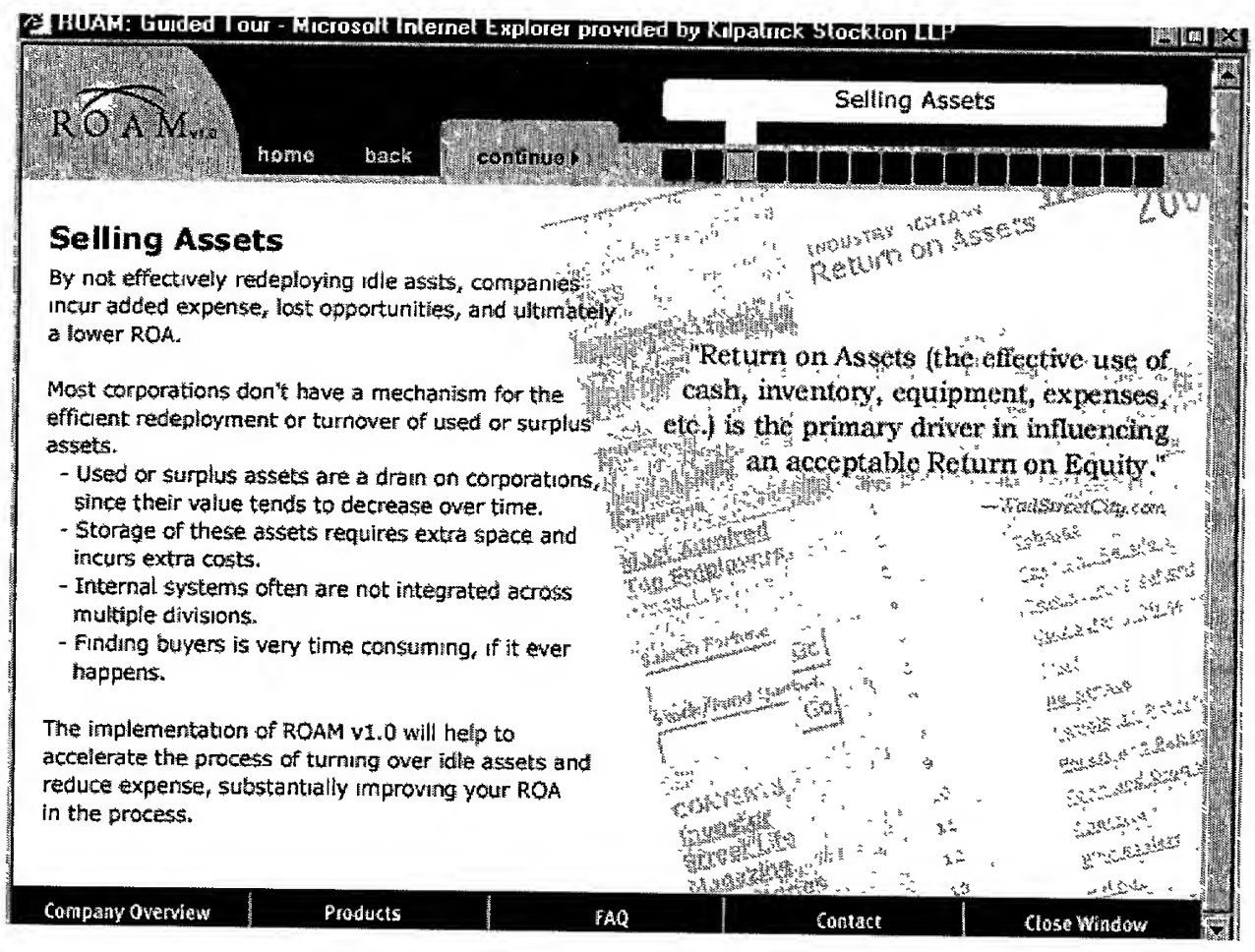

FIGURE 6(A)

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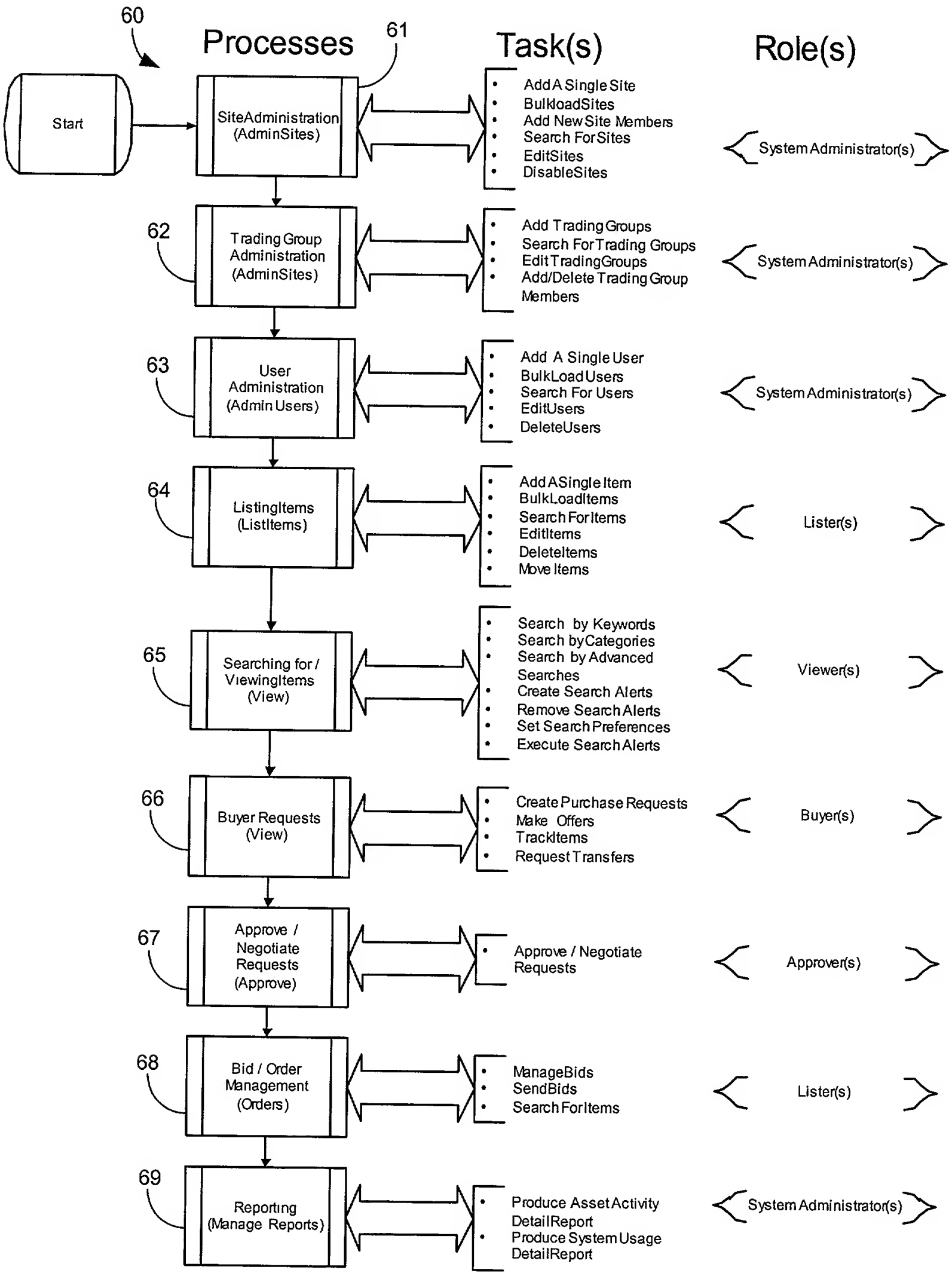

FIGURE 6(B)

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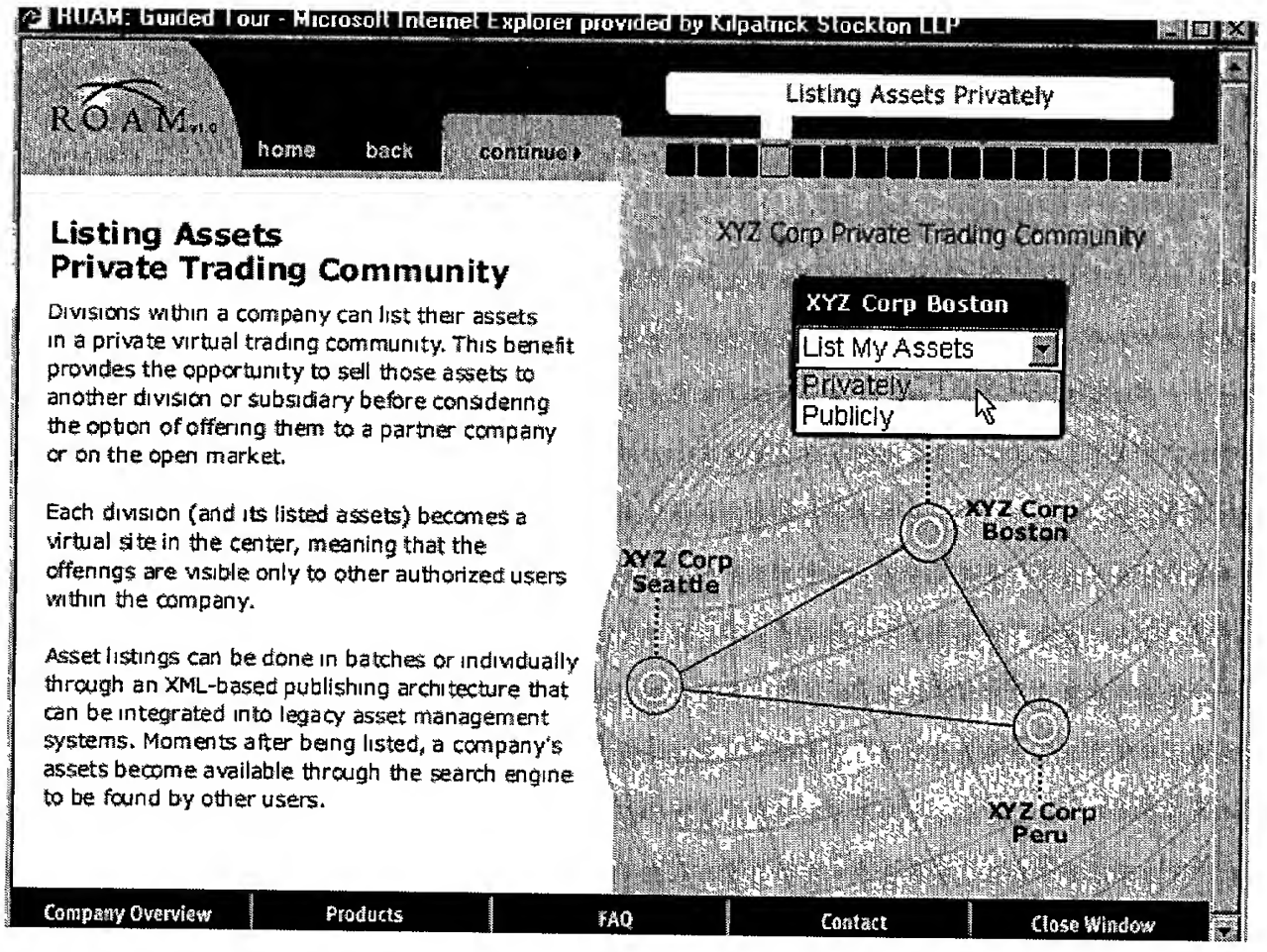

FIGURE 7(A)

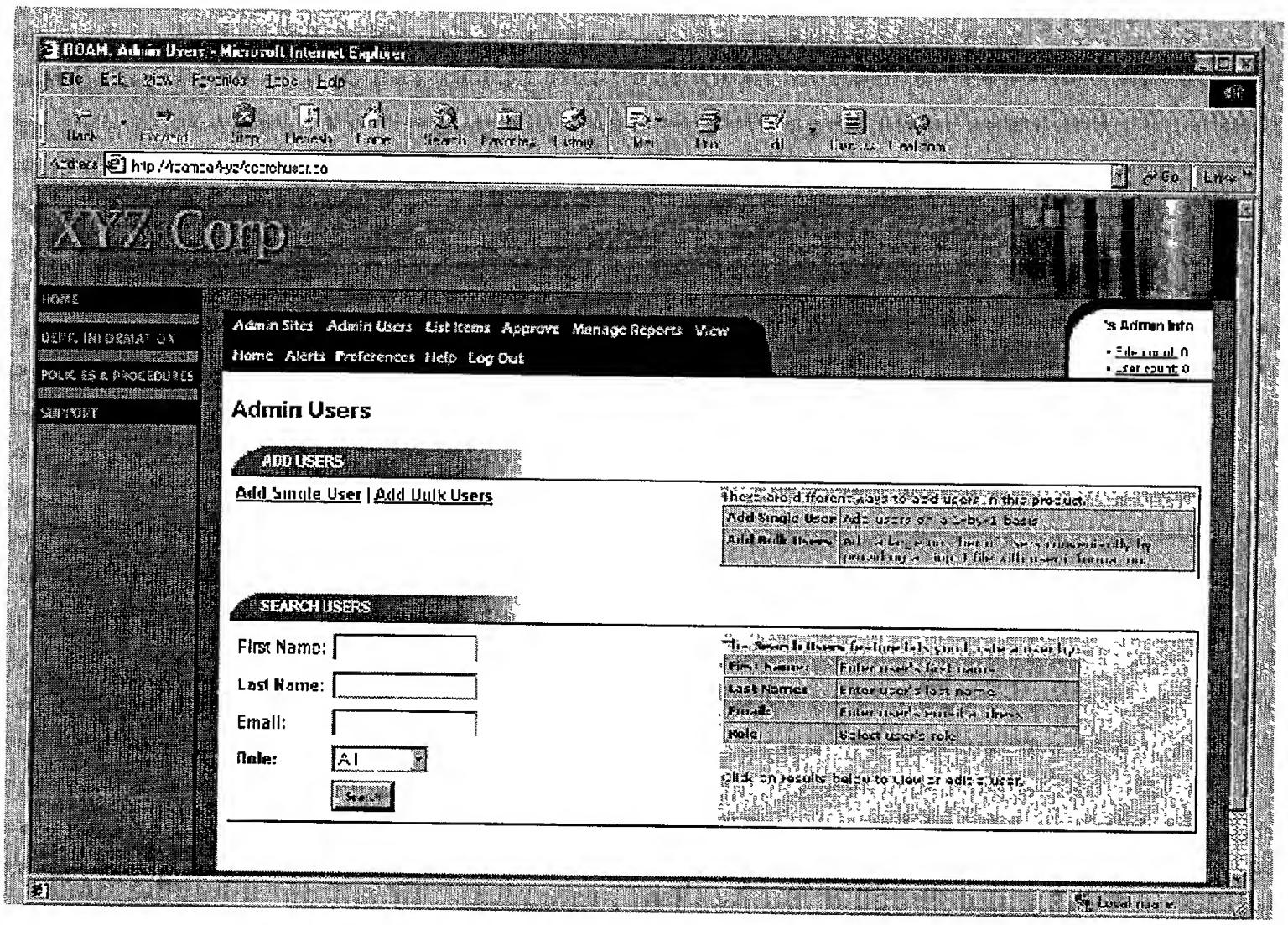
XYZ Corp
HOME
DEPT. INFORMATION
POLICIES & PROCEDURES
SUPPORT
Admin Sites
Admin Users
List Items
Approve
Manage Reports
View
Home
Alerts
Preferences
Help
Log Out
Admin Users
ADD USERS
Add Single User | Add Bulk Users
SEARCH USERS
First Name:
Last Name:
Email:
Role:
All

FIGURE 7(B)

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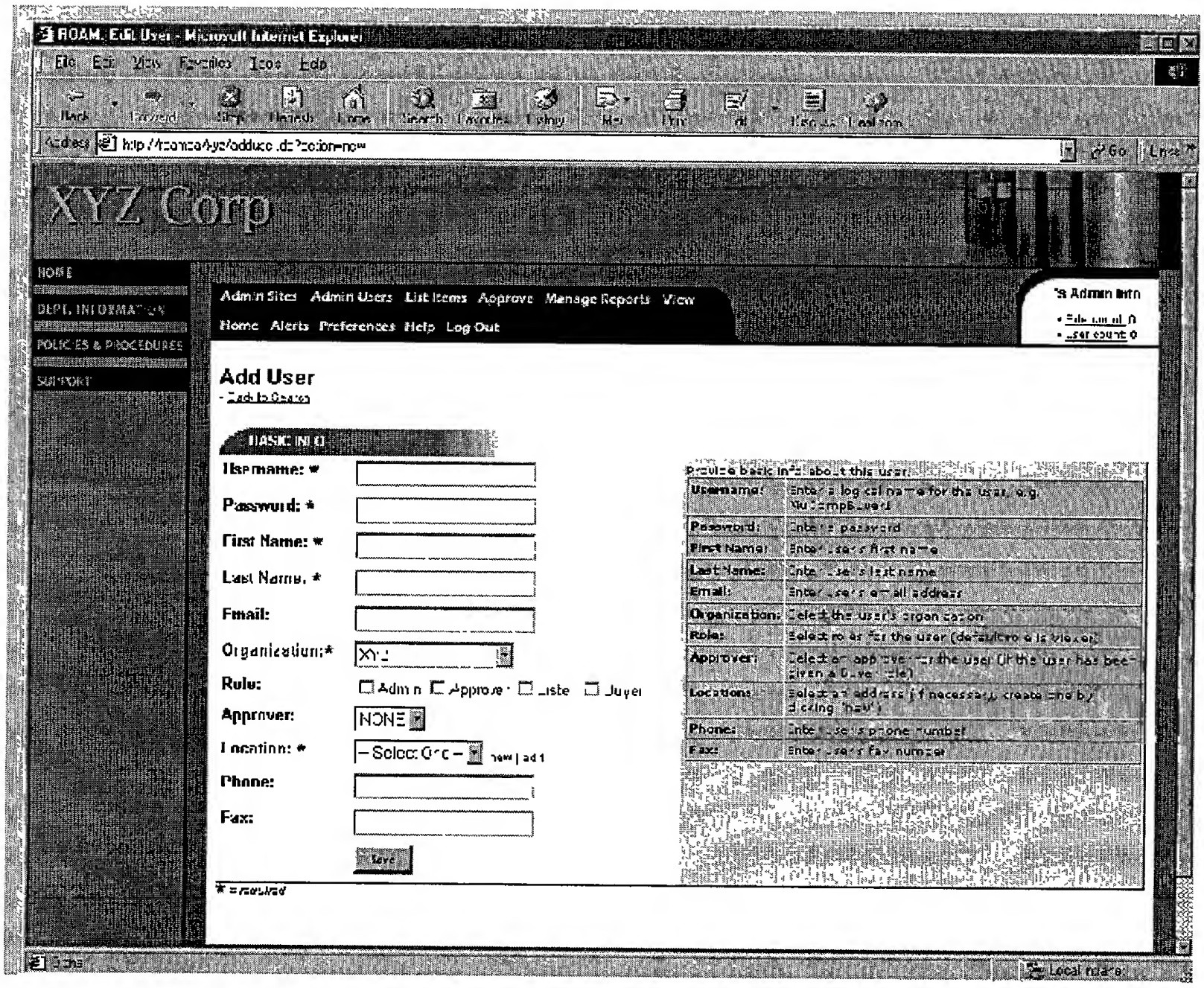


FIGURE 7(C)

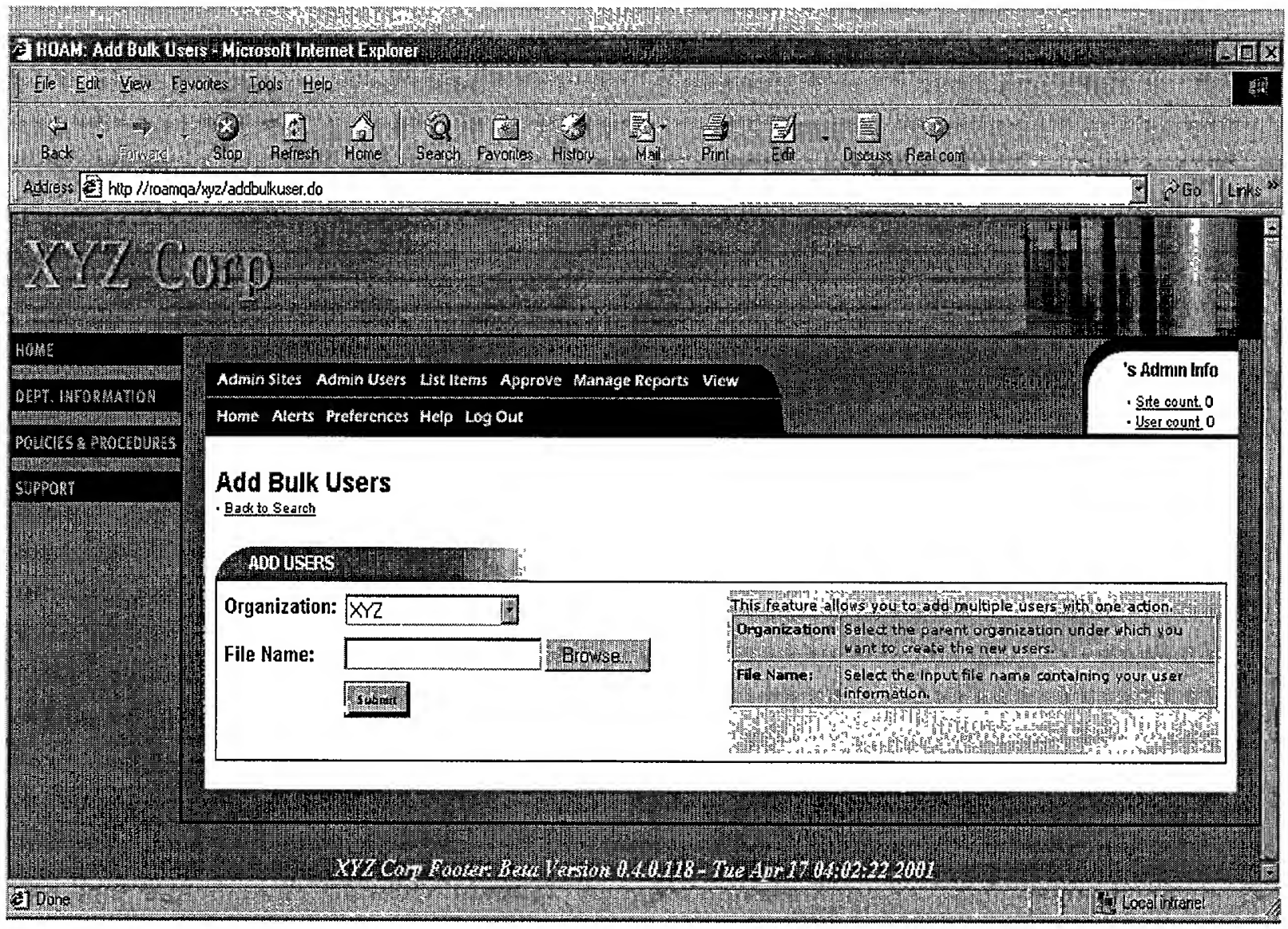

ROAM: Add Bulk Users - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss Real.com
Address http://roamqa/xyz/addbulkuser.do
Go Links
XYZ Corp
HOME
DEPT. INFORMATION
POLICIES & PROCEDURES
SUPPORT
Admin Sites Admin Users List Items Approve Manage Reports View
Home Alerts Preferences Help Log Out
's Admin Info
Site count 0
User count 0
Add Bulk Users
Back to Search
ADD USERS
Organization: XYZ
File Name:
Browse...
Submit
This feature allows you to add multiple users with one action.
Organization: Select the parent organization under which you want to create the new users.
File Name: Select the input file name containing your user information.
XYZ Corp Footer Beta Version 0.4.0.118 - Tue Apr 17 04:02:22 2001
Done
Local intranet

FIGURE 7(D)

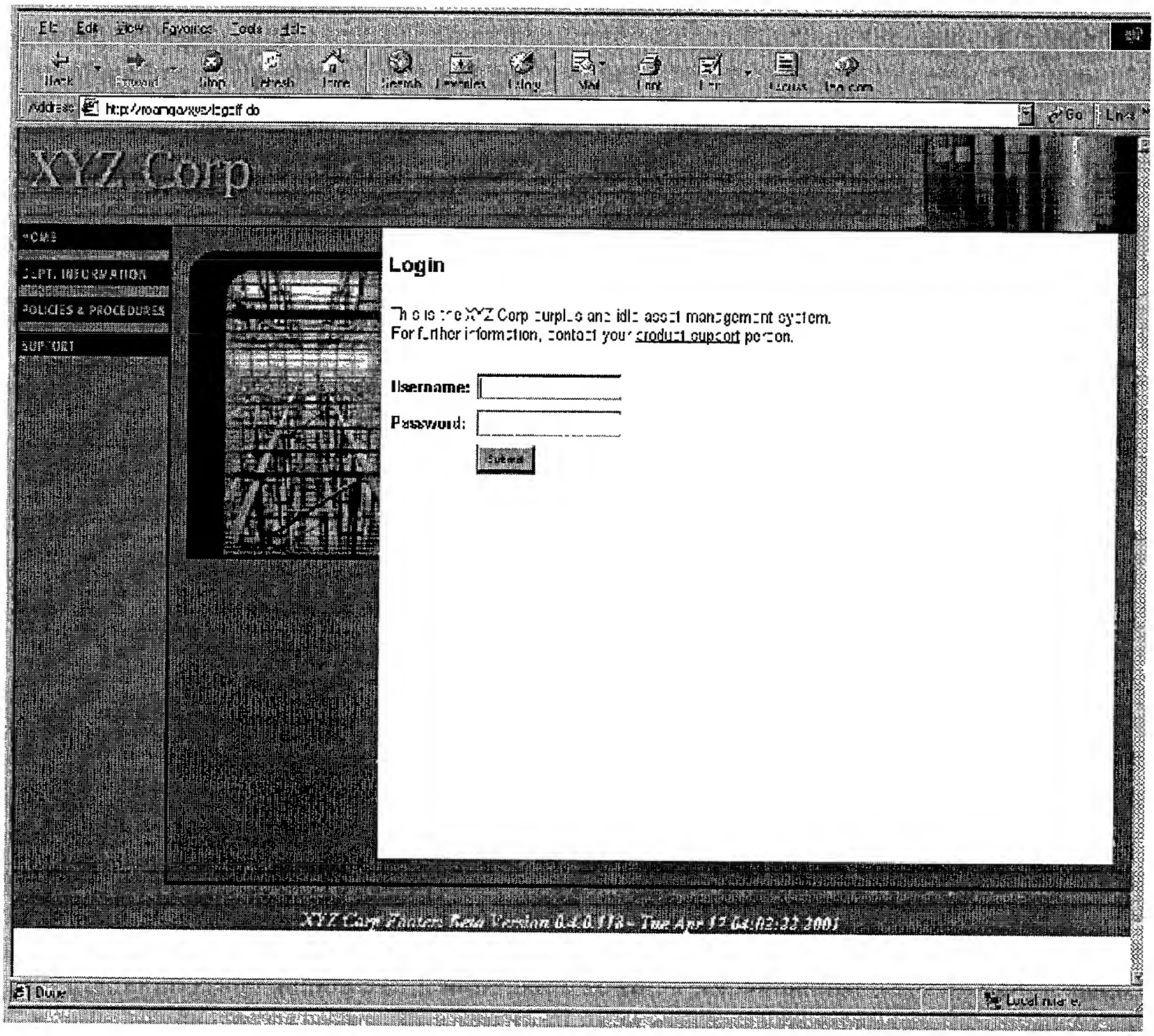
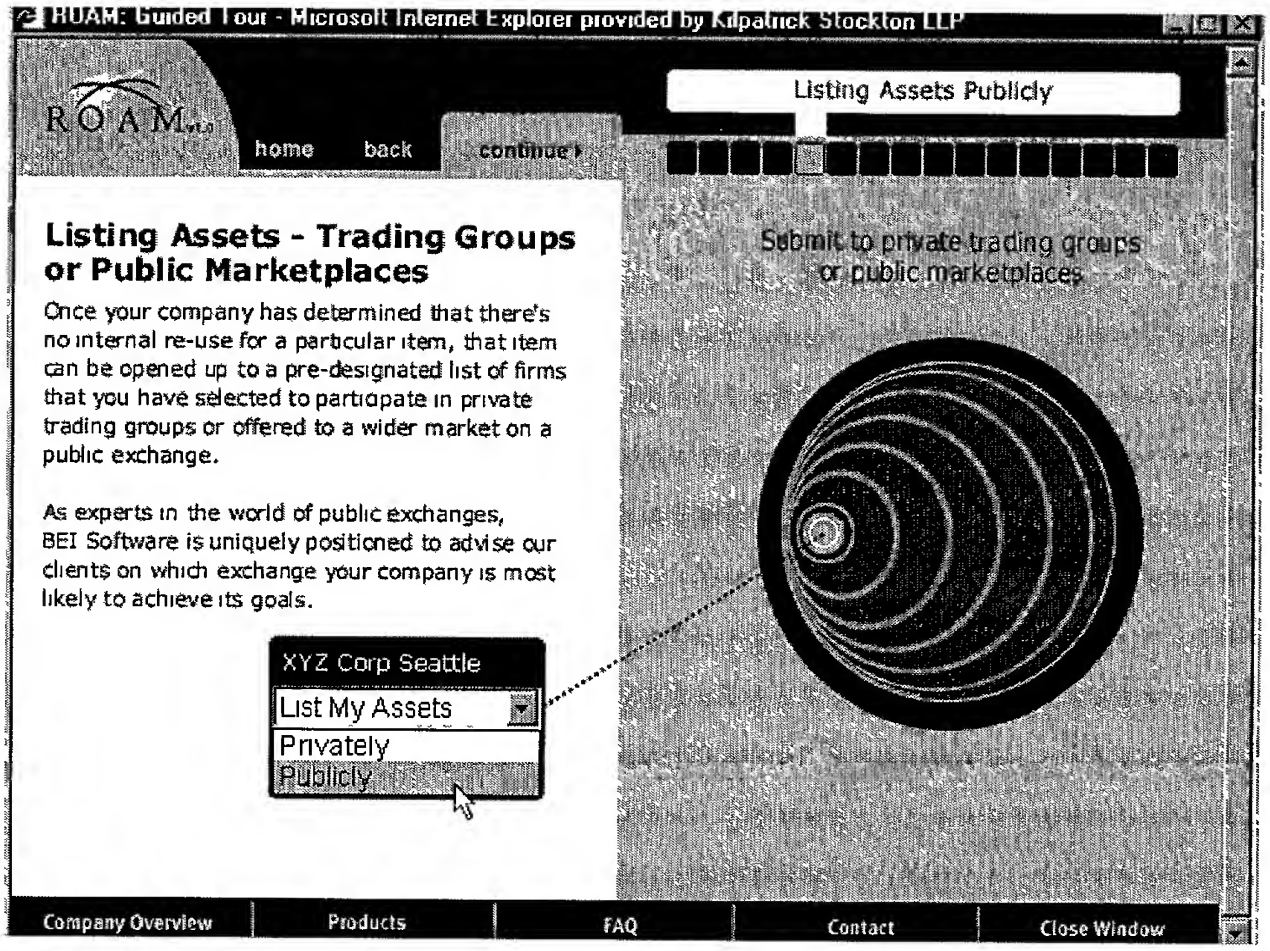

File Edit View Favorites Tools Help
Back
Forward
Stop
Refresh
Home
Search
Favorites
History
Mail
Print
Edit
Discuss
Messenger
Address
http://roamgo/xyz/login.do
Go
Links
XYZ Corp
HOME
CAPT. INFORMATION
POLICIES & PROCEDURES
SUPPORT
Login
This is the XYZ Corp surplus and idle asset management system.
For further information, contact your product support person.
Username:
Password:
Submit
XYZ Corp Platform Beta Version 0.4.0.118 - Tue Apr 17 04:02:32 2001
Done
Local intranet

FIGURE 7(E)


ROAM: Guided Tour - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP
ROAM
home
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continue
Listing Assets Publicly
Listing Assets - Trading Groups or Public Marketplaces
Once your company has determined that there's no internal re-use for a particular item, that item can be opened up to a pre-designated list of firms that you have selected to participate in private trading groups or offered to a wider market on a public exchange.
As experts in the world of public exchanges, BEI Software is uniquely positioned to advise our clients on which exchange your company is most likely to achieve its goals.
XYZ Corp Seattle
List My Assets
Privately
Publicly
Submit to private trading groups or public marketplaces
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FIGURE 8(A)

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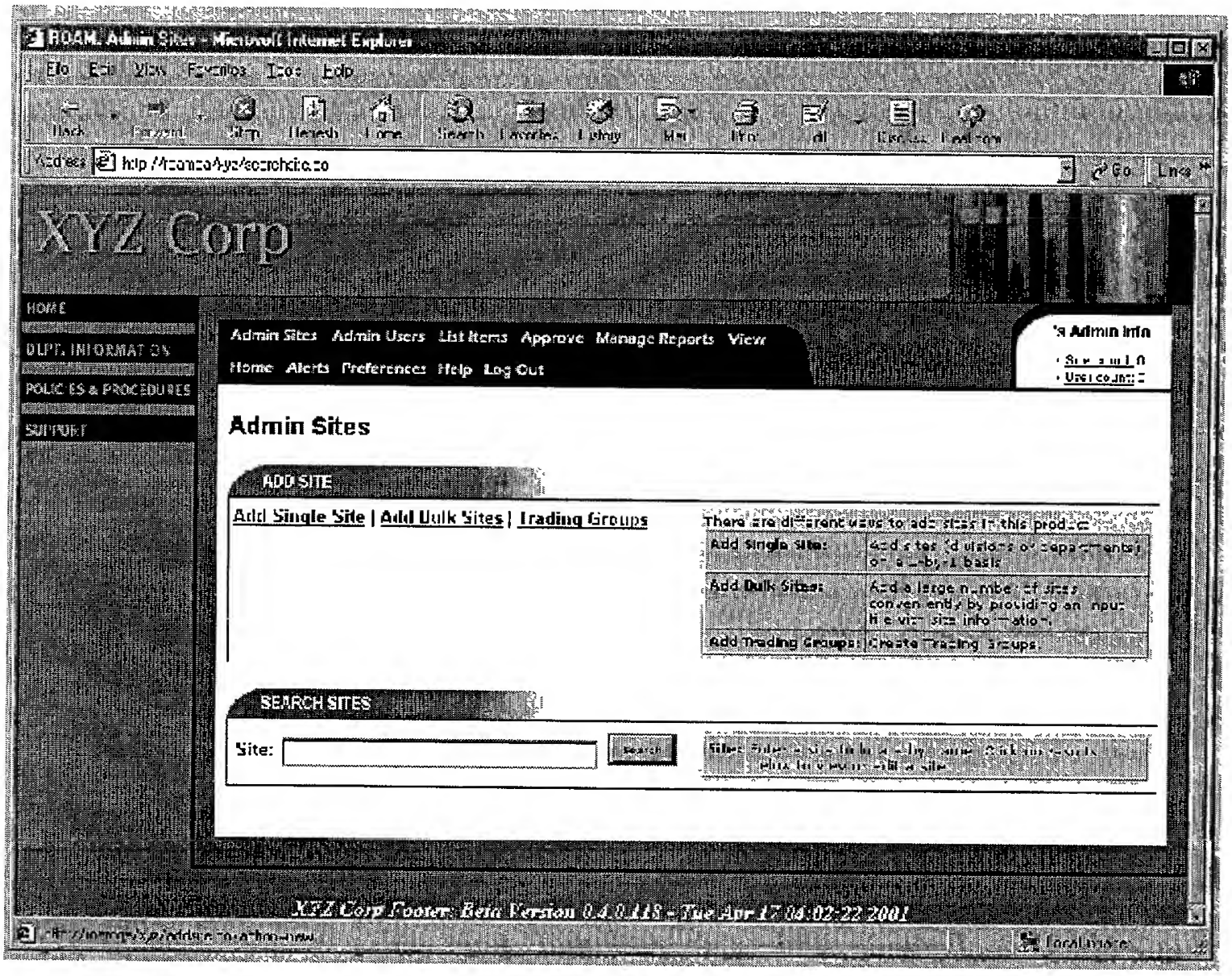

FIGURE 8(B)

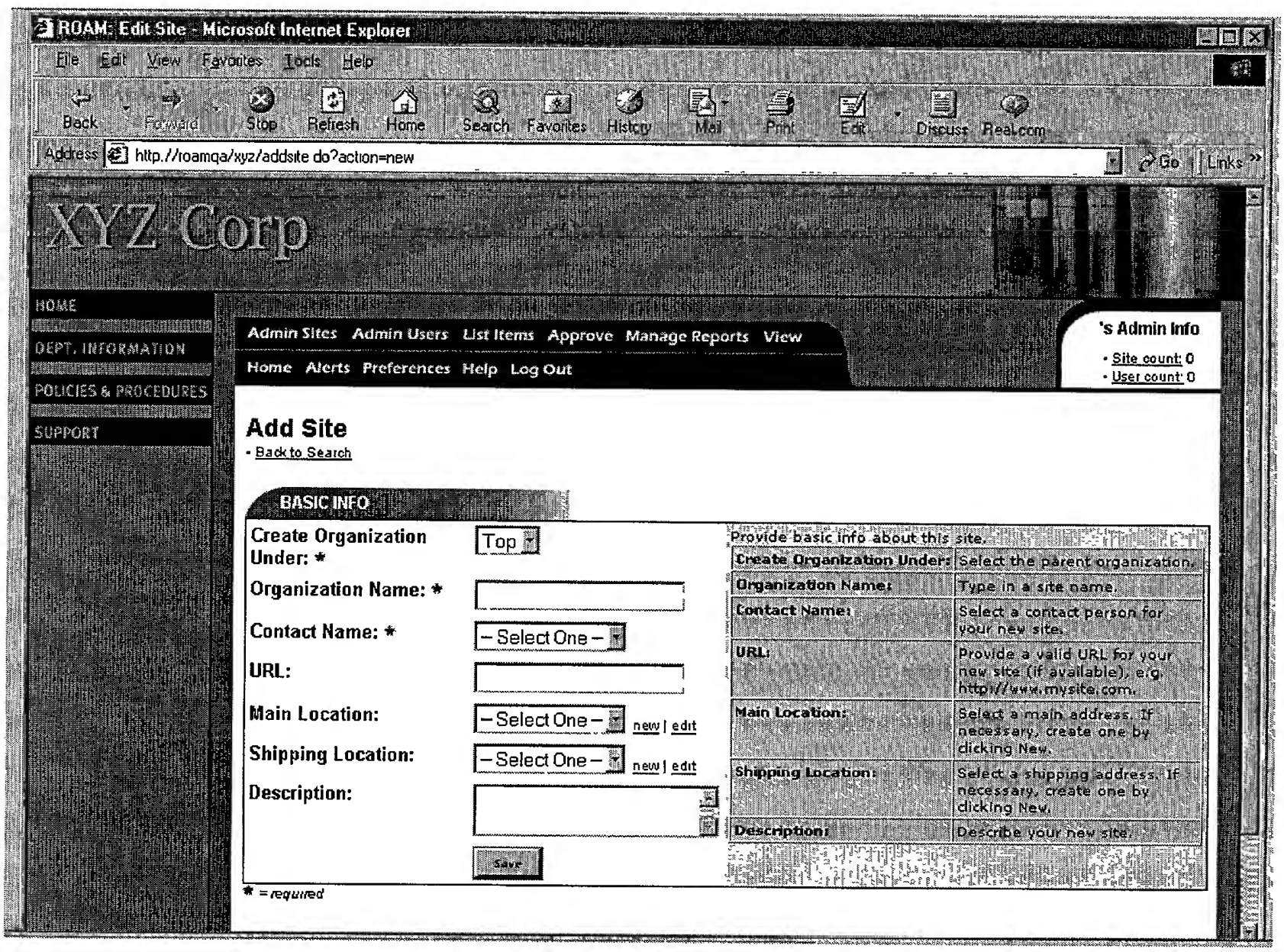
ROAM: Edit Site - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss RealCom
Address http://roamqa/xyz/addsite.do?action=new
Go Links
XYZ Corp
HOME
DEPT. INFORMATION
POLICIES & PROCEDURES
SUPPORT
Admin Sites Admin Users List Items Approve Manage Reports View
Home Alerts Preferences Help Log Out
's Admin Info
• Site count: 0
• User count: 0
Add Site
• Back to Search
BASIC INFO
Create Organization Under: *
Top
Organization Name: *
Contact Name: *
– Select One –
URL:
Main Location:
– Select One –
new | edit
Shipping Location:
– Select One –
new | edit
Description:
Save
* = required
Provide basic info about this site.
Create Organization Under: Select the parent organization.
Organization Name: Type in a site name.
Contact Name: Select a contact person for your new site.
URL: Provide a valid URL for your new site (if available), e.g. http://www.mysite.com.
Main Location: Select a main address. If necessary, create one by clicking New.
Shipping Location: Select a shipping address. If necessary, create one by clicking New.
Description: Describe your new site.

FIGURE 8(C)

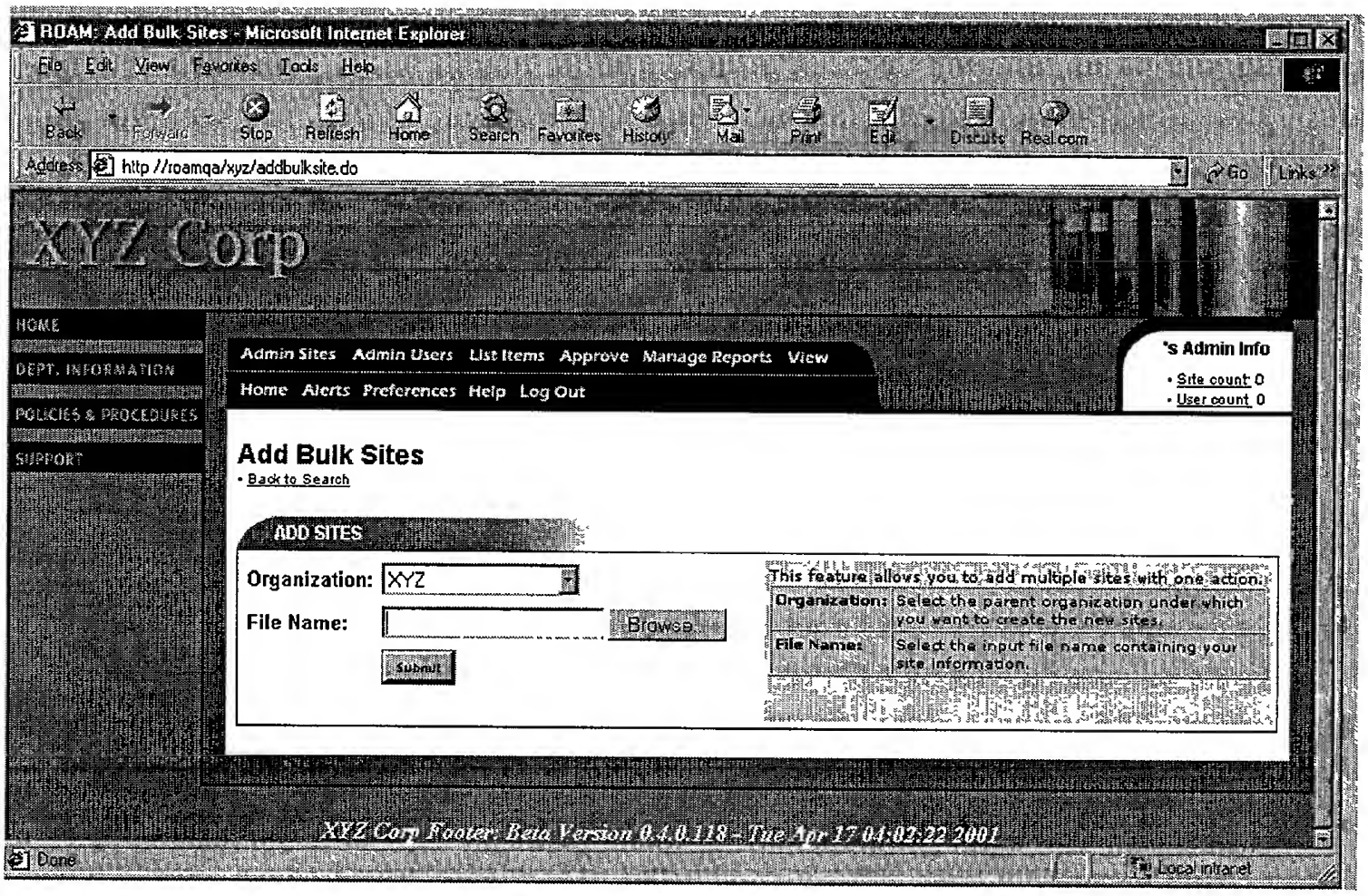
ROAM: Add Bulk Sites - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss Real.com
Address http://roamqa/xyz/addbulksite.do
Go Links
XYZ Corp
HOME
DEPT. INFORMATION
POLICIES & PROCEDURES
SUPPORT
Admin Sites Admin Users List Items Approve Manage Reports View
Home Alerts Preferences Help Log Out
's Admin Info
Site count: 0
User count: 0
Add Bulk Sites
Back to Search
ADD SITES
Organization: XYZ
File Name: Browse...
Submit
This feature allows you to add multiple sites with one action.
Organization: Select the parent organization under which you want to create the new sites.
File Name: Select the input file name containing your site information.
XYZ Corp Footer Beta Version 0.4.0.118 - Tue Apr 17 04:02:22 2001
Done
Local intranet

FIGURE 8(D)

Inventor Peter A Leeds et al.
Serial No.
Filed: February 15, 2002
Title: Management Systems and Methods for Maximizing Return on Assets
Attorney Docket L9090/269380
Attorney Geoff L Sutcliffe
Phone 404 815 6530
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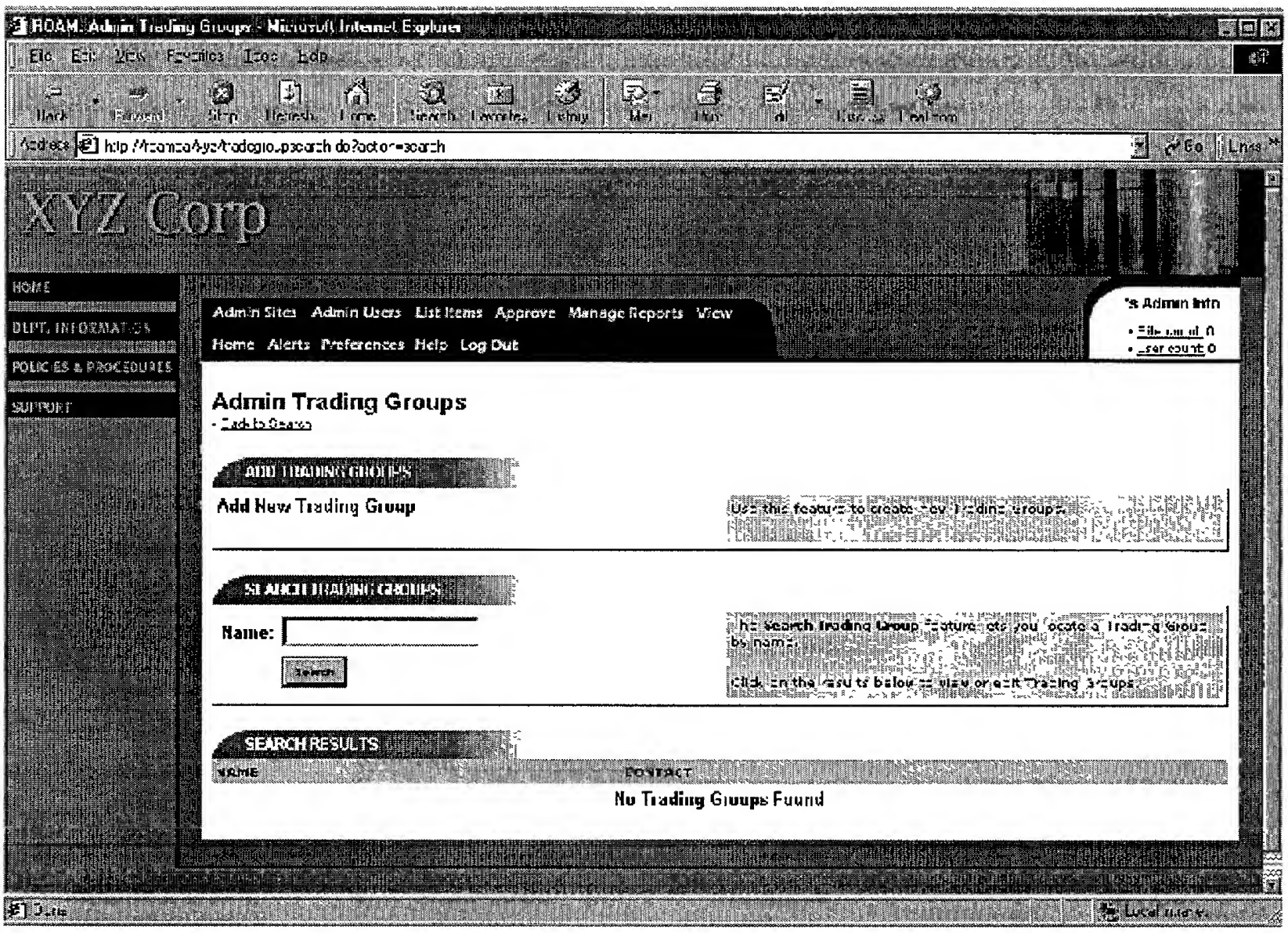

FIGURE 8(E)

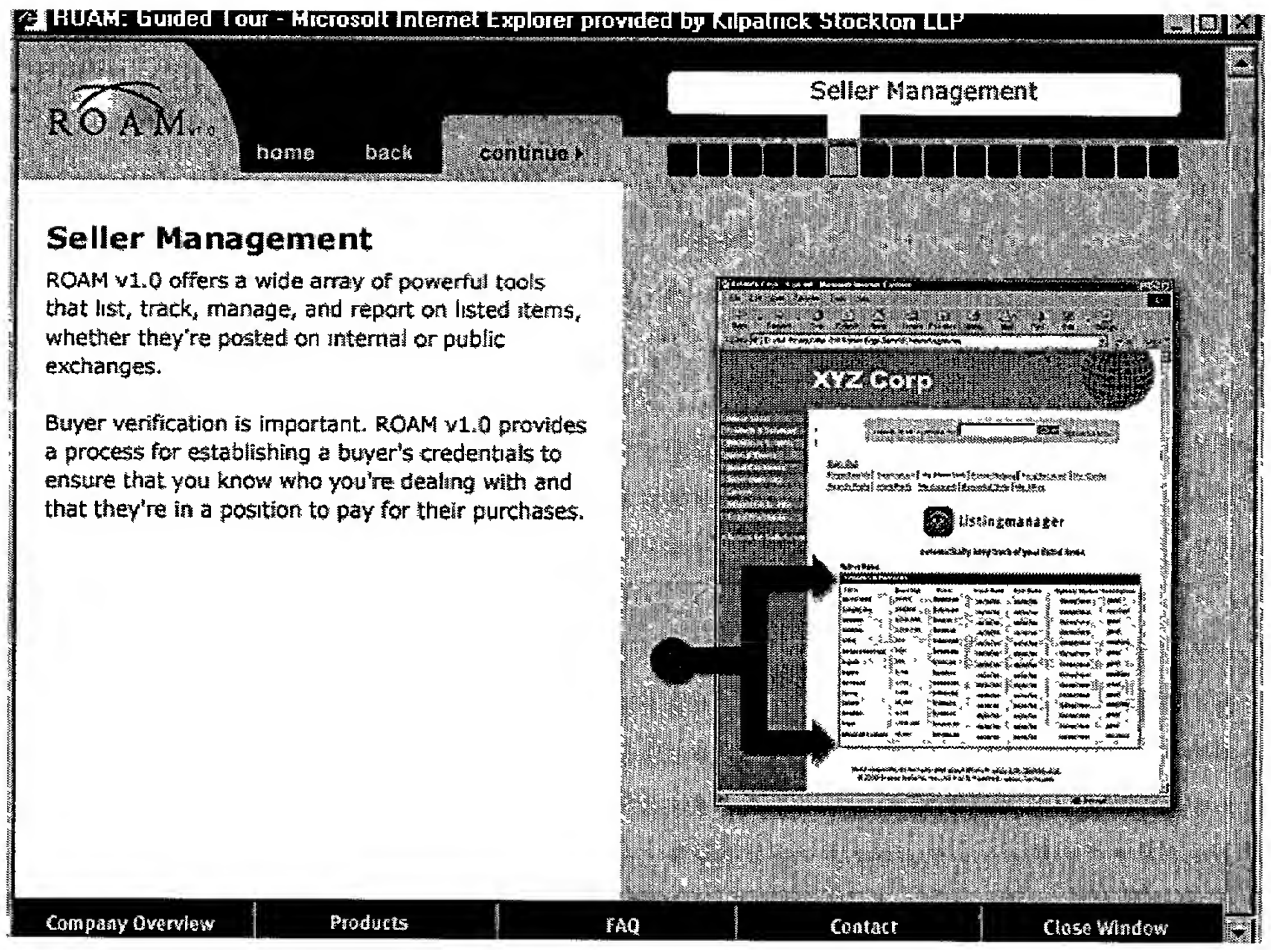
ROAM: Guided Tour - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP
ROAM v1.0
home
back
continue
Seller Management
Seller Management
ROAM v1.0 offers a wide array of powerful tools that list, track, manage, and report on listed items, whether they're posted on internal or public exchanges.
Buyer verification is important. ROAM v1.0 provides a process for establishing a buyer's credentials to ensure that you know who you're dealing with and that they're in a position to pay for their purchases.
XYZ Corp
listingmanager
Company Overview
Products
FAQ
Contact
Close Window

FIGURE 9

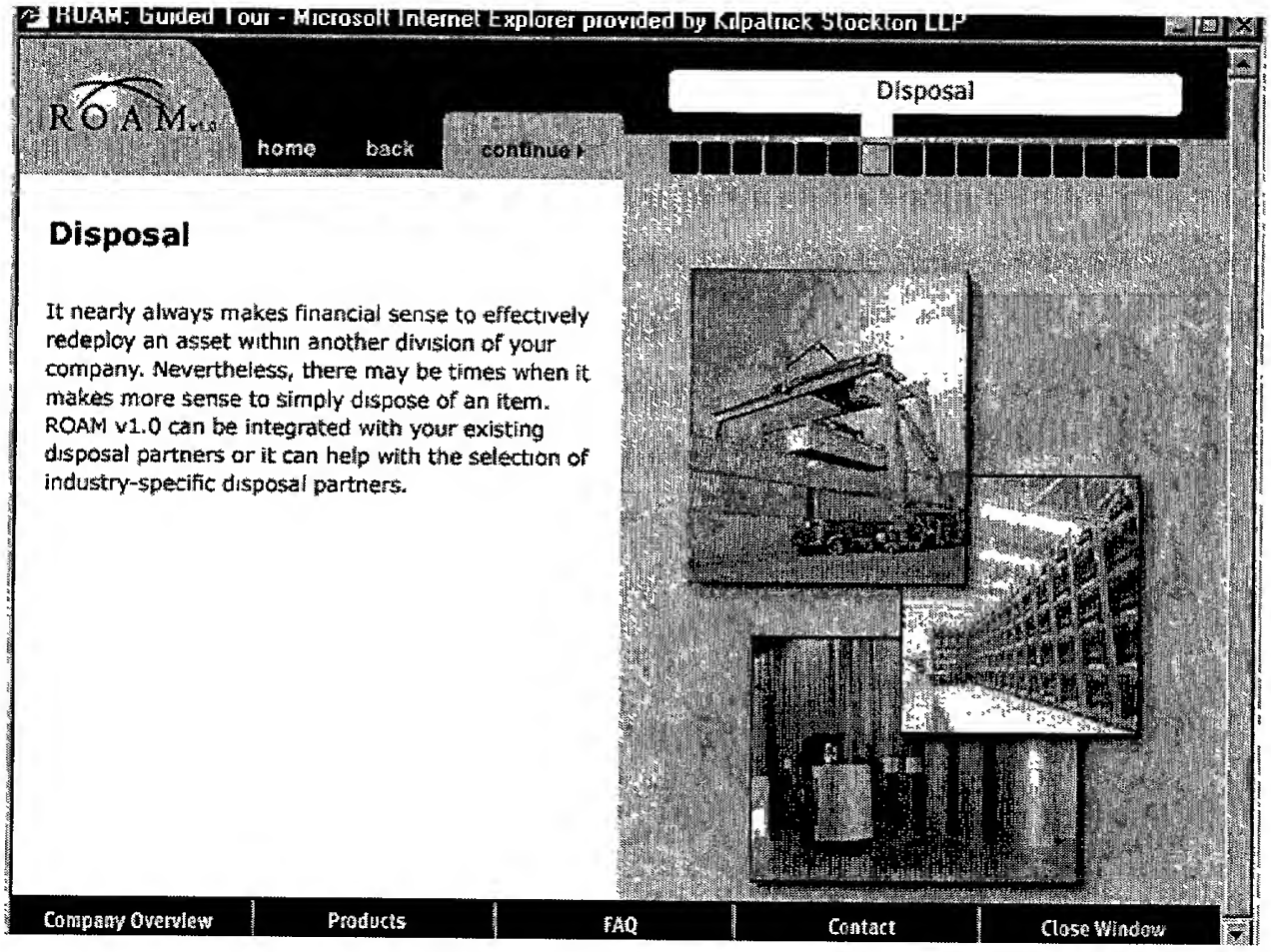
ROAM: Guided Tour - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP
ROAM v1.0
home
back
continue
Disposal
Disposal
It nearly always makes financial sense to effectively redeploy an asset within another division of your company. Nevertheless, there may be times when it makes more sense to simply dispose of an item. ROAM v1.0 can be integrated with your existing disposal partners or it can help with the selection of industry-specific disposal partners.
Company Overview
Products
FAQ
Contact
Close Window

FIGURE 10

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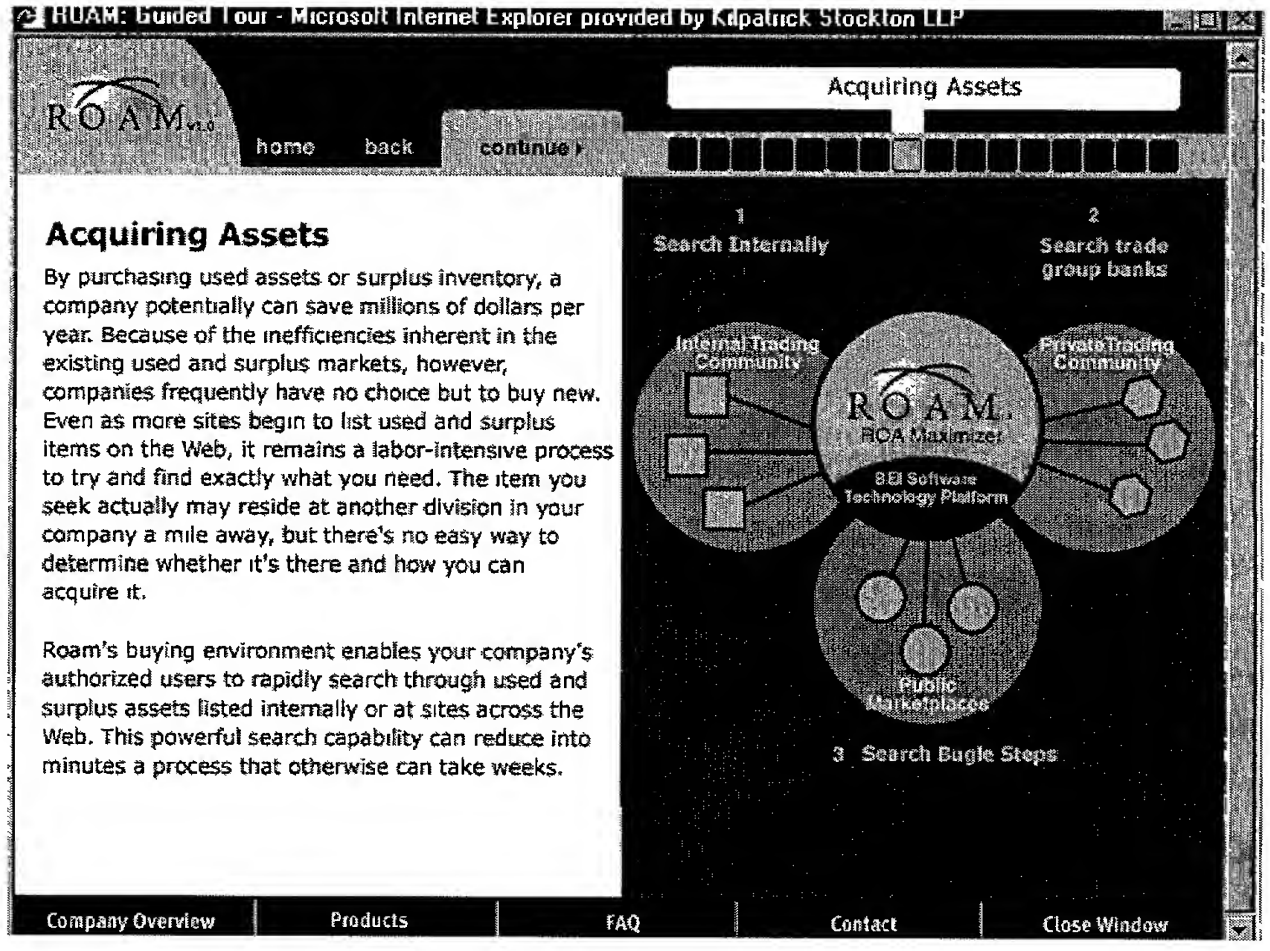

FIGURE 11

Inventor. Peter A. Leeds et al.
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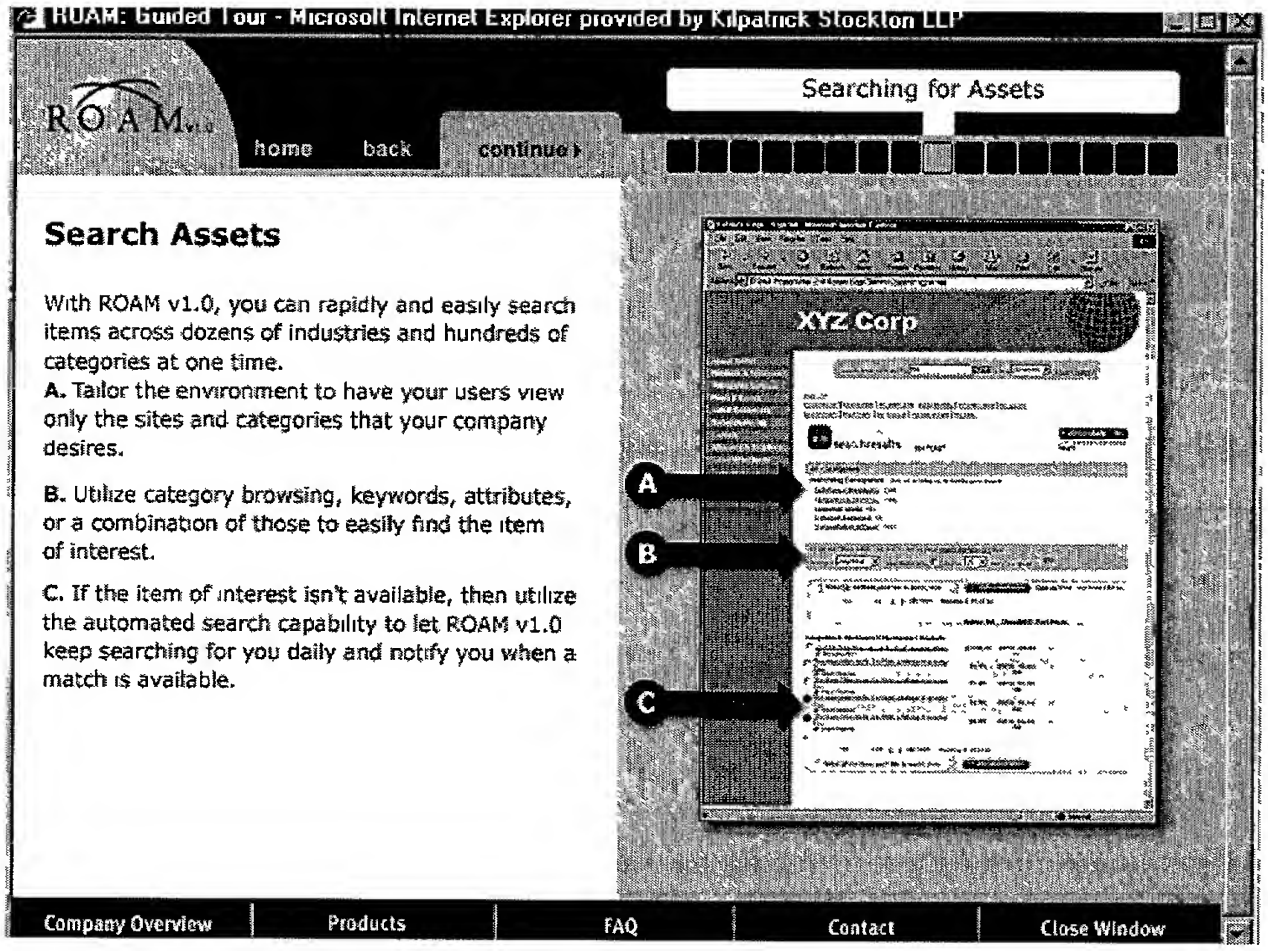

FIGURE 12(A)

Inventor: Peter A Leeds et al
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Filed: February 15, 2002
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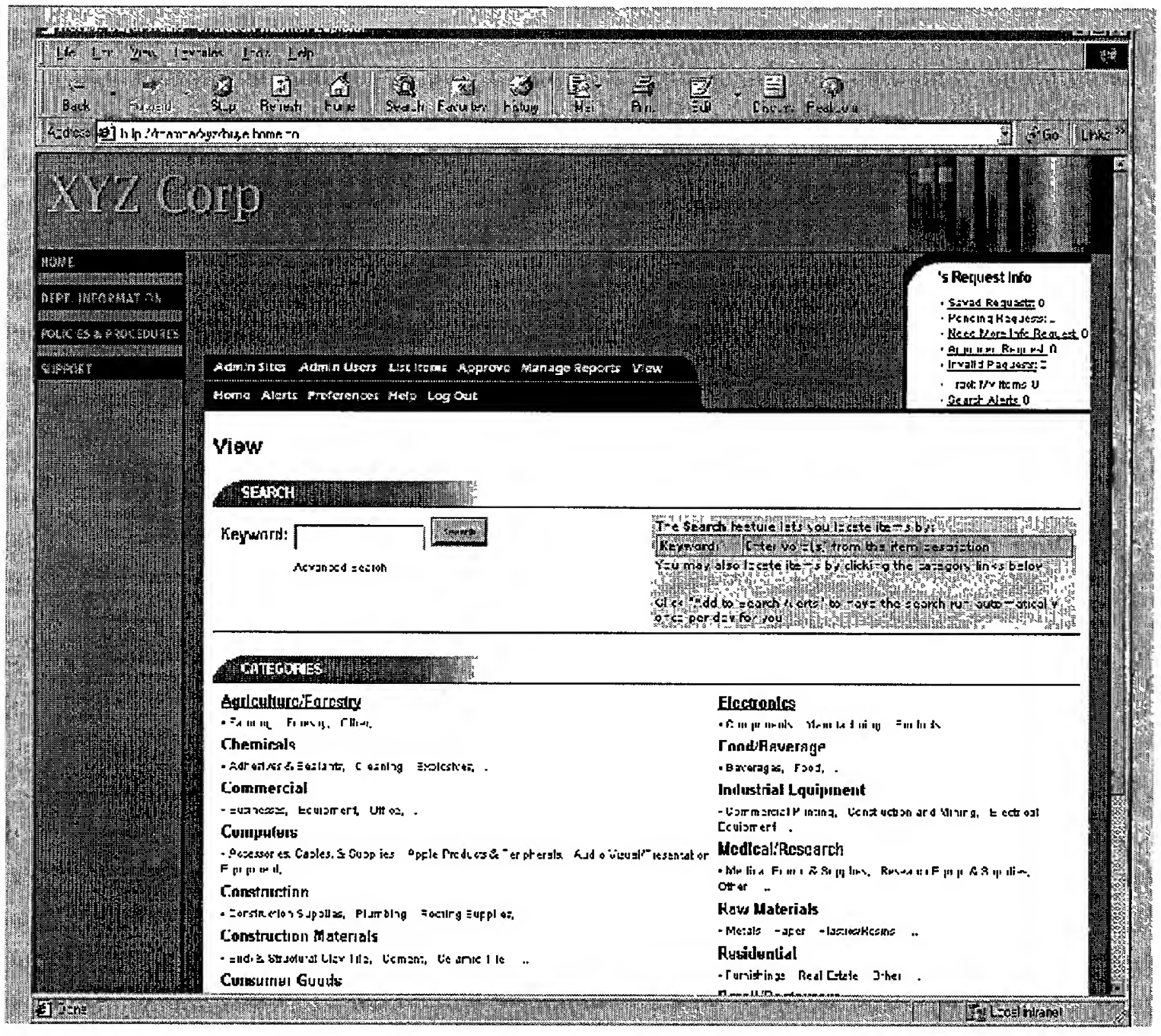

FIGURE 12(B)

Inventor: Peter A. Leeds et al.
Serial No.
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Title: Management Systems and Methods for Maximizing Return on Assets
Attorney Docket: L9090/269380
Attorney: Geoff L. Sutcliffe
Phone: 404 815 6530
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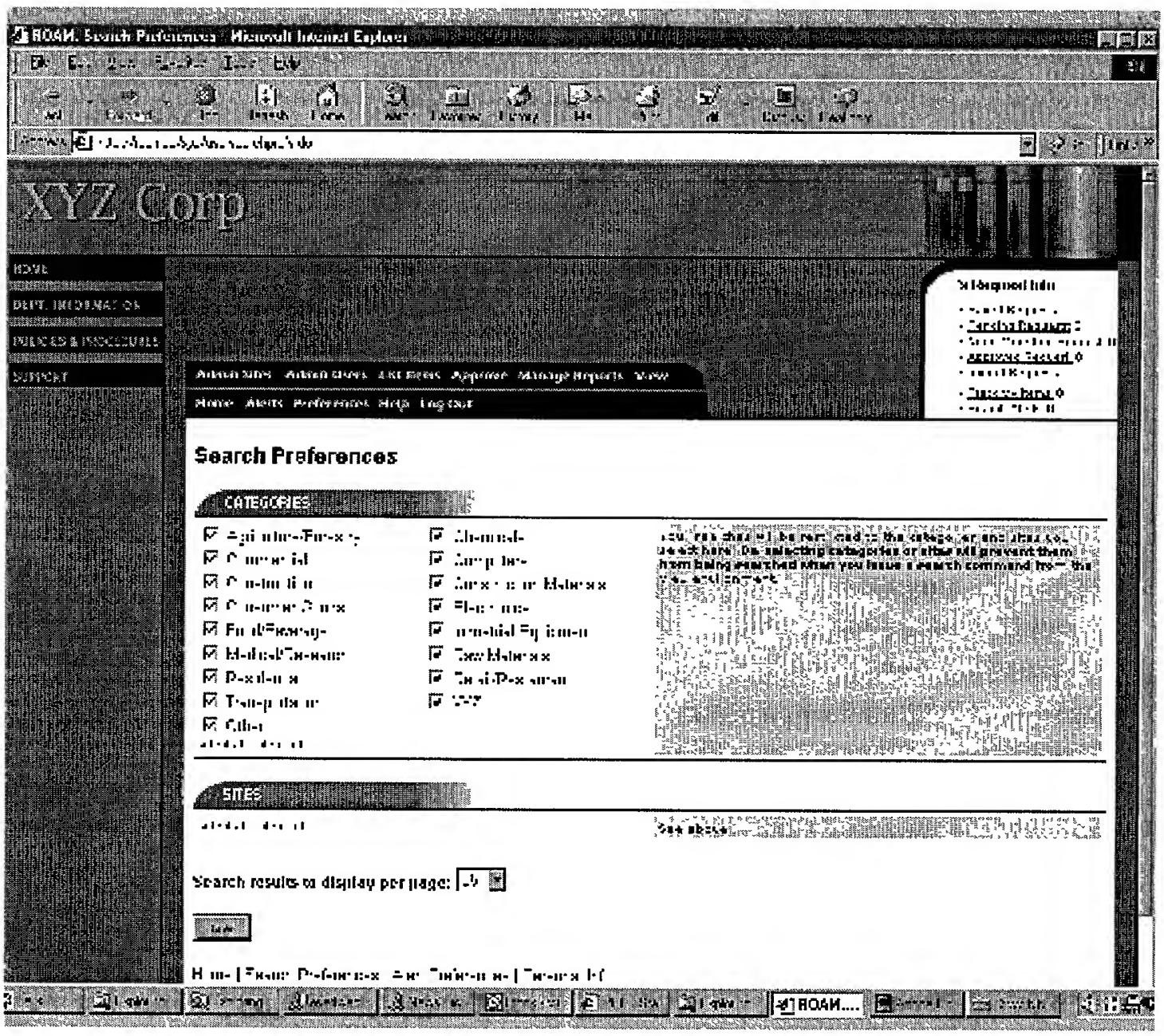

FIGURE 12(C)

Inventor Peter A Leeds et al
Serial No.
Filed: February 15, 2002
Title: Management Systems and Methods for Maximizing Return on Assets
Attorney Docket L9090/269380
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Phone 404 815 6530
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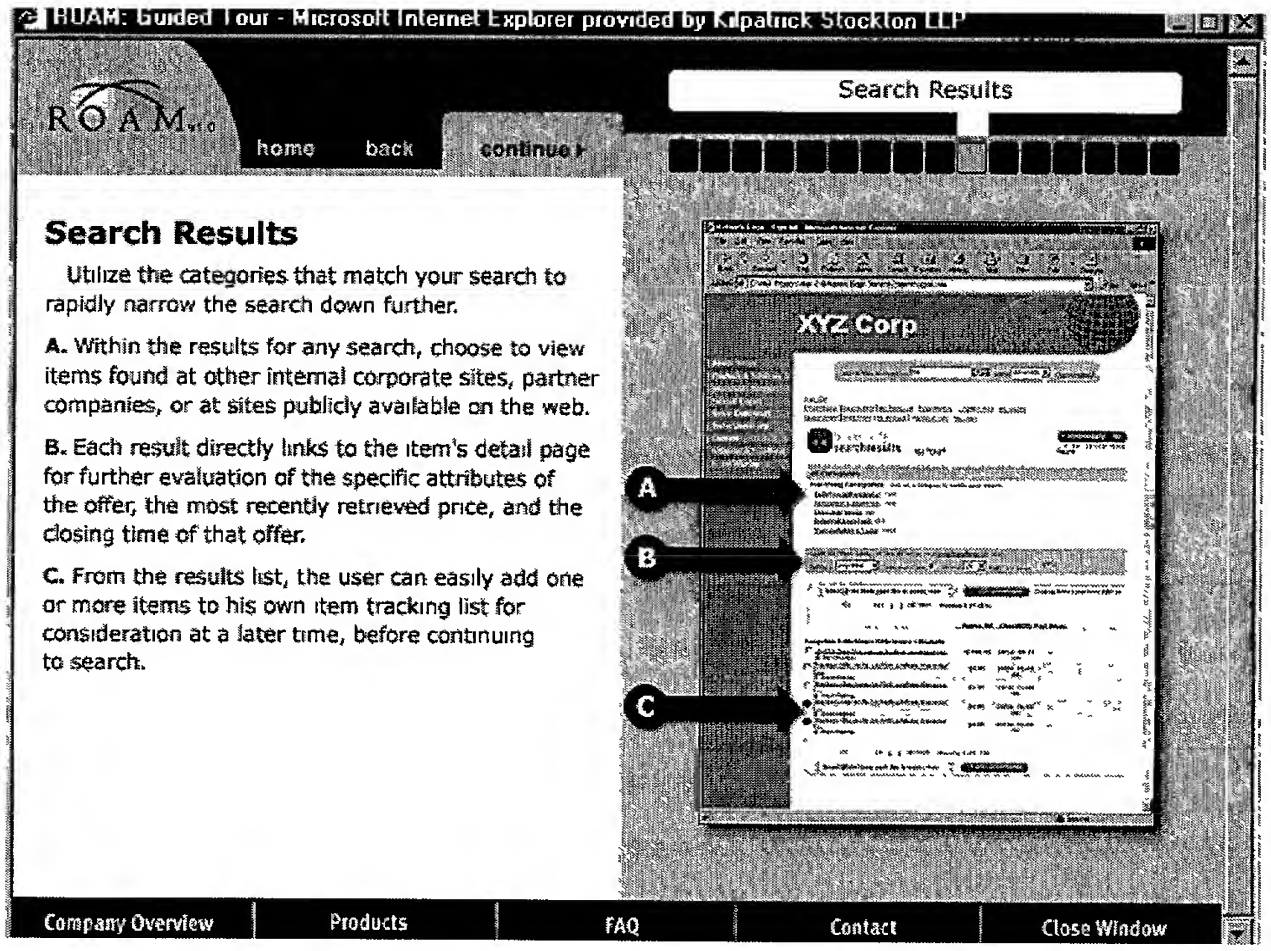

FIGURE 13(A)

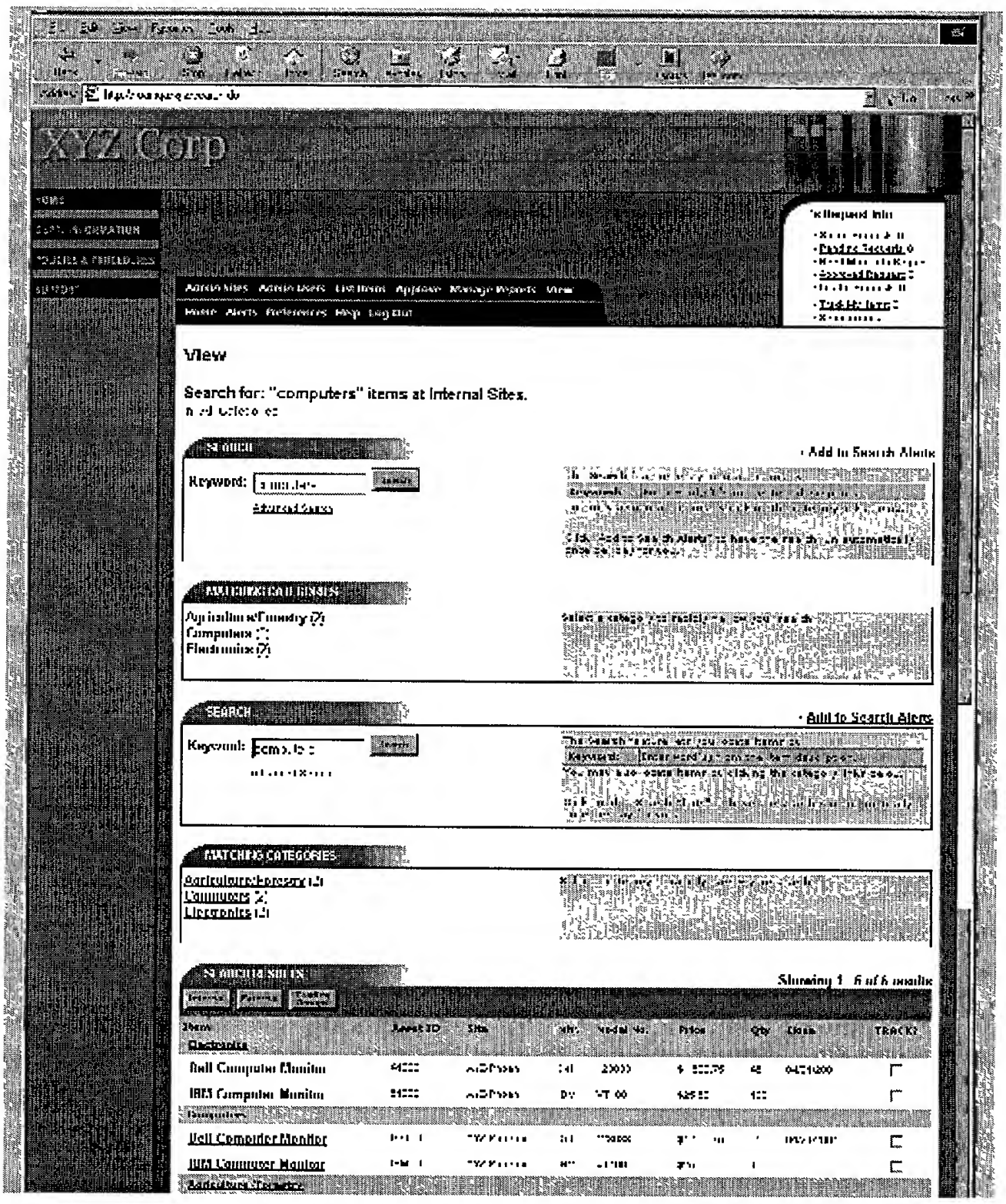
XYZ Corp
View
Search for: "computers" items at Internal Sites.
Keyword:
Add to Search Alerts
MATCHING CATEGORIES
Computers
SEARCH
Add to Search Alerts
MATCHING CATEGORIES
Computers
Electronics
Dell Computer Monitor
IBM Computer Monitor
Computers
Dell Computer Monitor
IBM Computer Monitor

FIGURE 13(B)

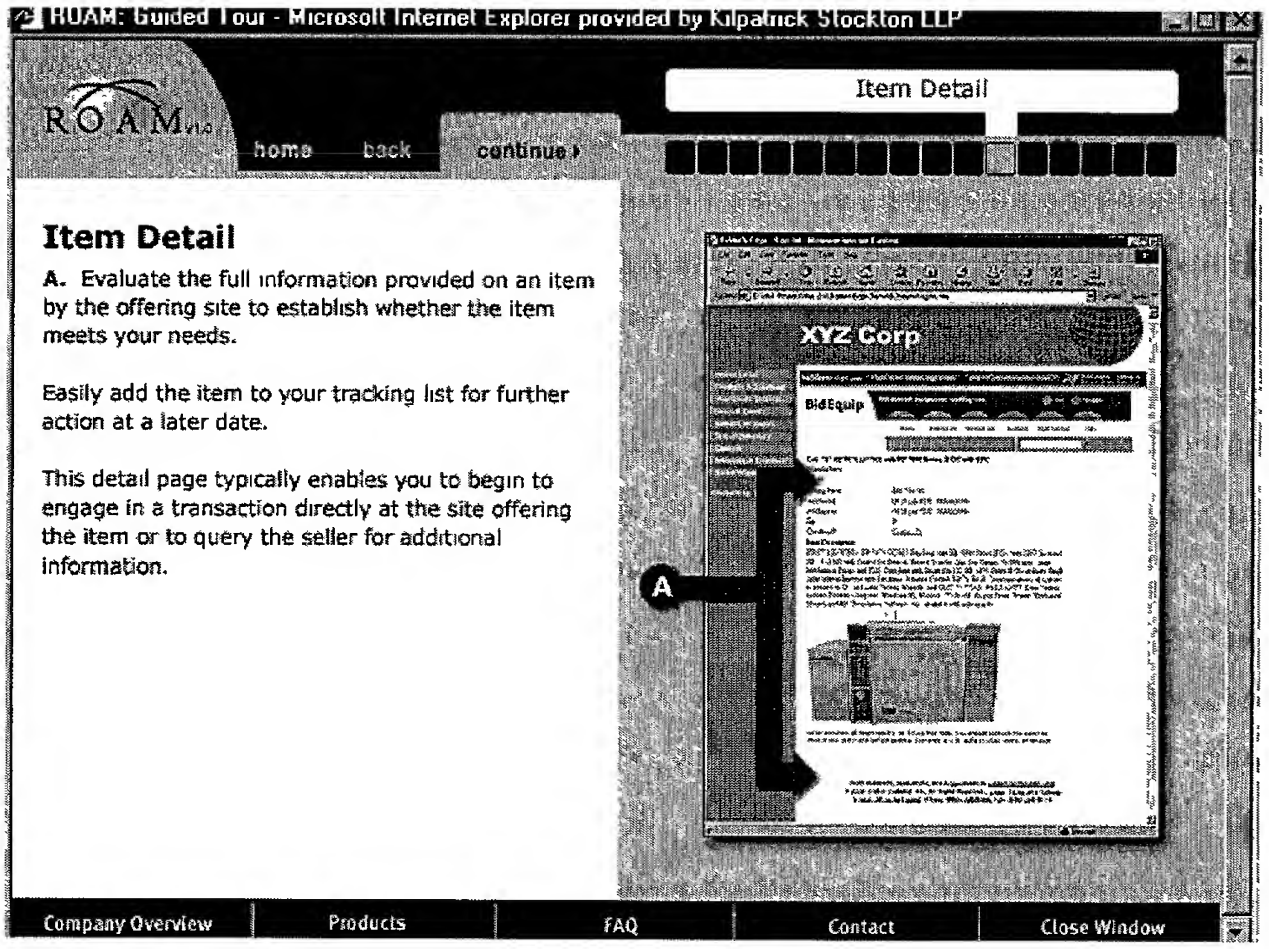
ROAM: Guided Tour - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP
ROAM
home
back
continue
Item Detail
Item Detail
A. Evaluate the full information provided on an item by the offering site to establish whether the item meets your needs.
Easily add the item to your tracking list for further action at a later date.
This detail page typically enables you to begin to engage in a transaction directly at the site offering the item or to query the seller for additional information.
XYZ Corp
BidEquip
A
Company Overview
Products
FAQ
Contact
Close Window

FIGURE 14(A)

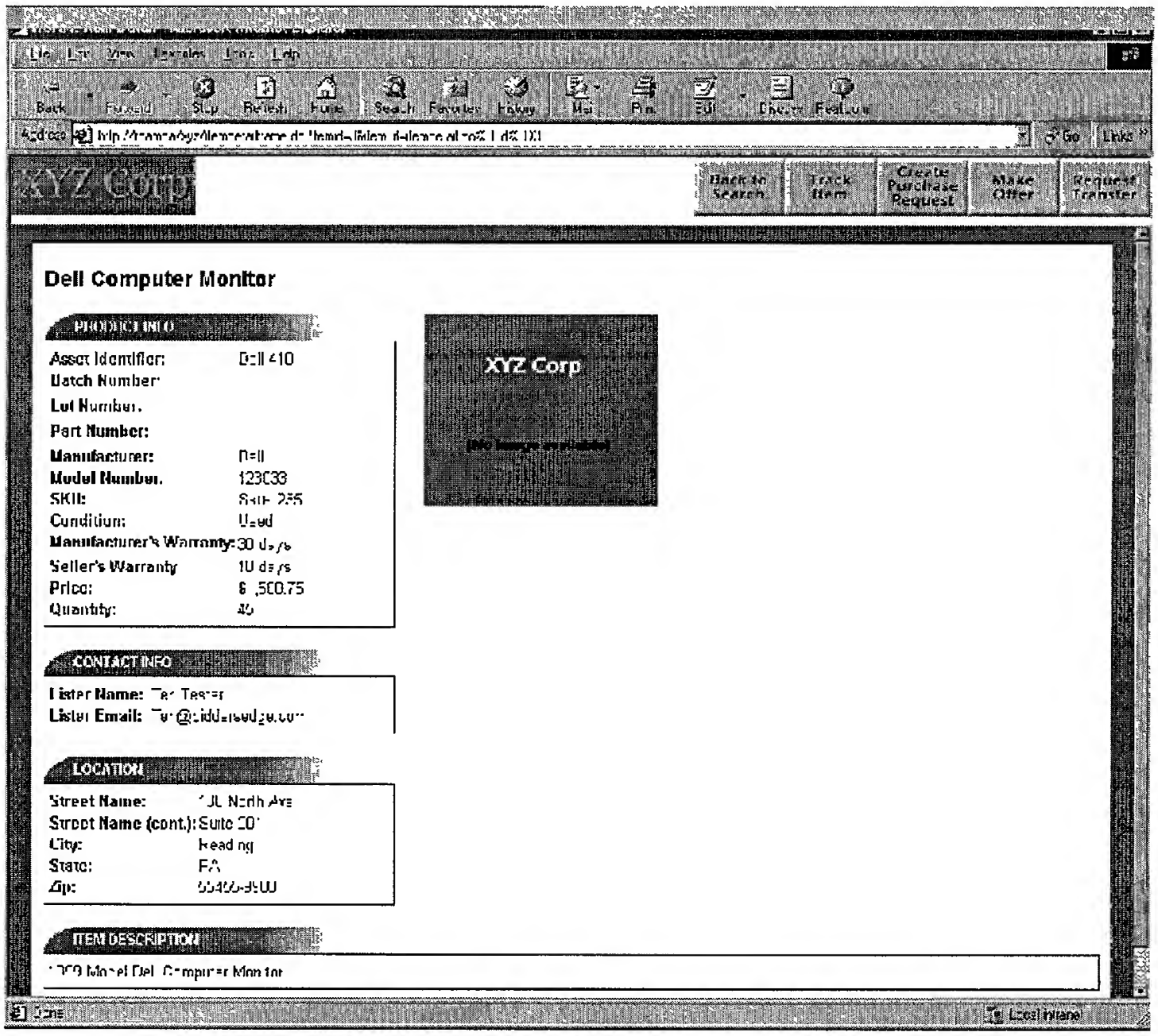
XYZ Comp
Back to Search
Track Item
Create Purchase Request
Make Offer
Request Transfer
Dell Computer Monitor
PRODUCT INFO
Asset Identifier: Dell 410
Batch Number:
Lot Number:
Part Number:
Manufacturer: Dell
Model Number: 123033
SKU: Sku 255
Condition: Used
Manufacturer's Warranty: 30 days
Seller's Warranty 10 days
Price: $,500.75
Quantity: 45
XYZ Corp
CONTACT INFO
Lister Name:
Lister Email:
LOCATION
Street Name:
Street Name (cont.): Suite 20
City: Reading
State: PA
Zip:
ITEM DESCRIPTION
Done
Local intranet

FIGURE 14(B)

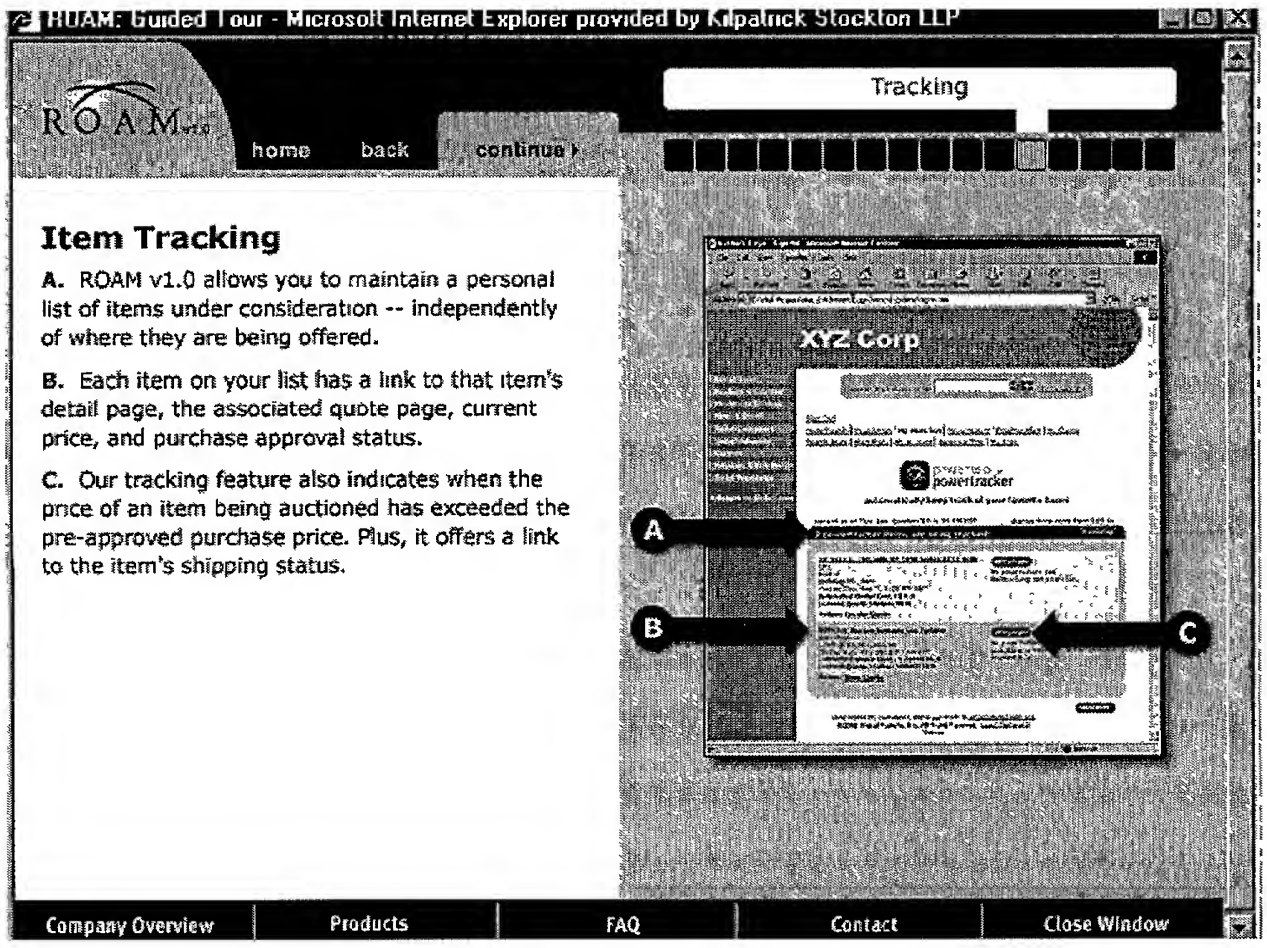
ROAM: Guided Tour - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP
ROAM
home
back
continue
Tracking
Item Tracking
A. ROAM v1.0 allows you to maintain a personal list of items under consideration -- independently of where they are being offered.
B. Each item on your list has a link to that item's detail page, the associated quote page, current price, and purchase approval status.
C. Our tracking feature also indicates when the price of an item being auctioned has exceeded the pre-approved purchase price. Plus, it offers a link to the item's shipping status.
XYZ Corp
powertracker
A
B
C
Company Overview
Products
FAQ
Contact
Close Window

FIGURE 15

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Attorney Geoff L Sutcliffe
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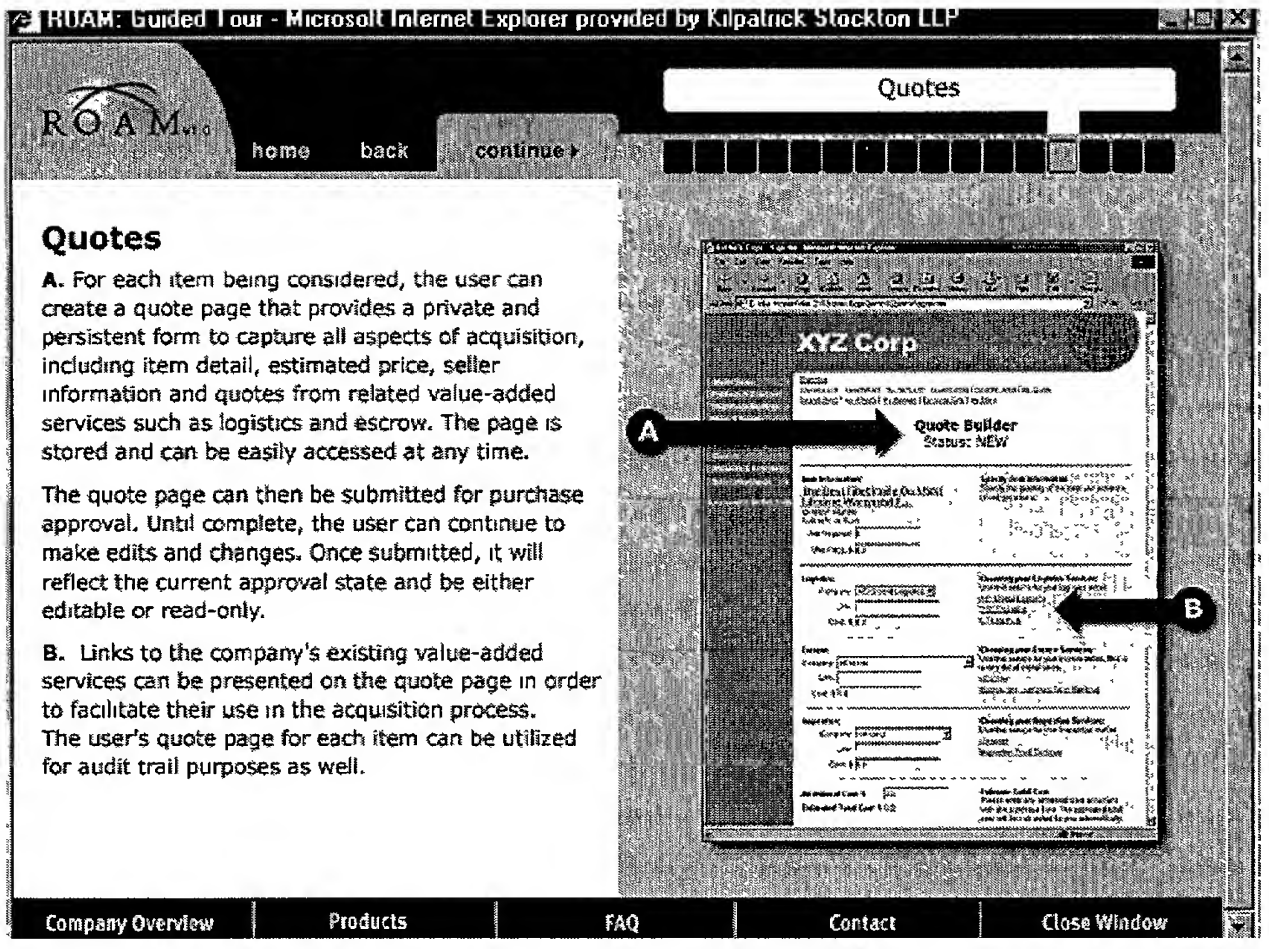

FIGURE 16

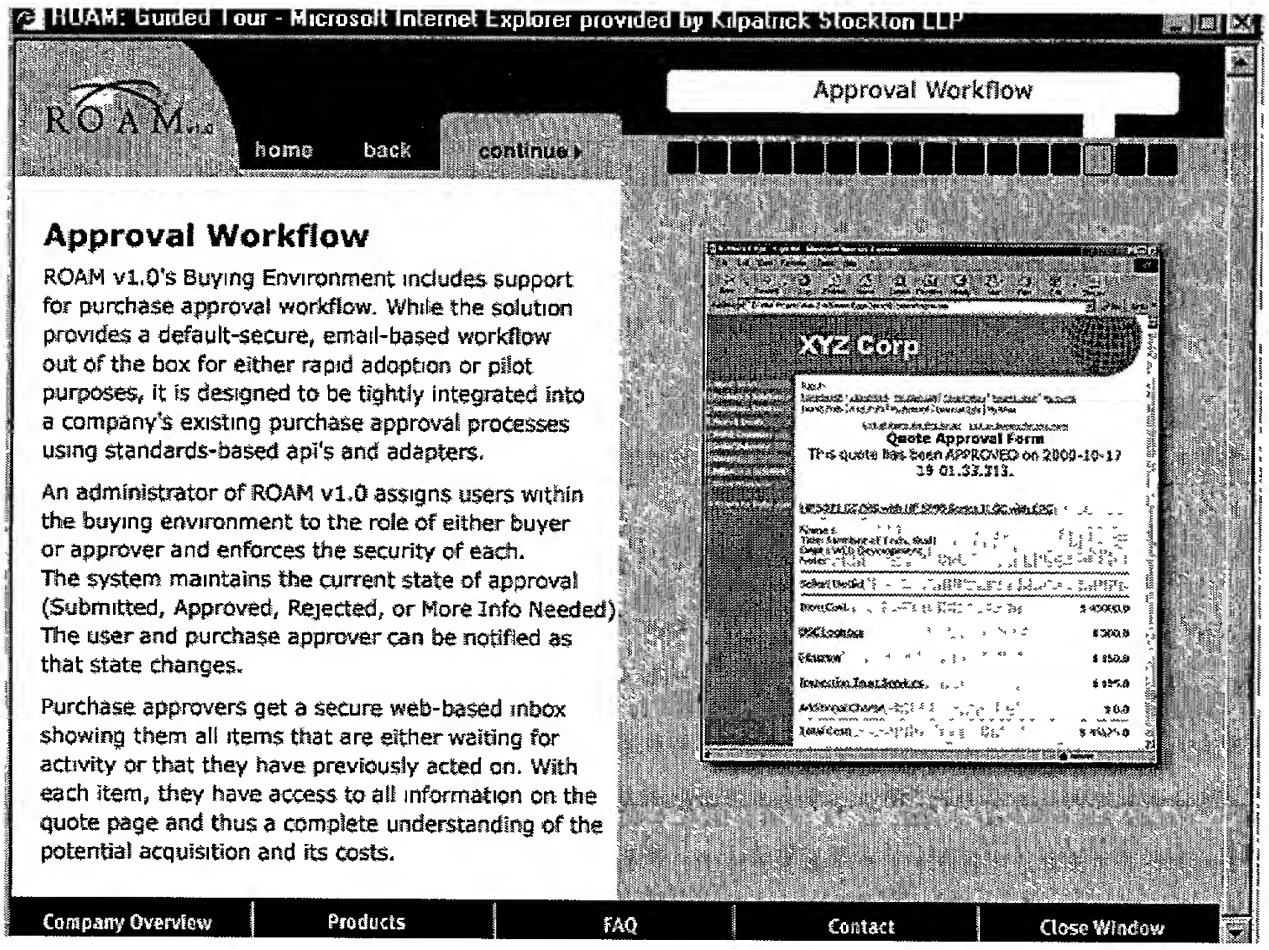
ROAM: Guided Tour - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP
ROAM
home
back
continue
Approval Workflow
Approval Workflow
ROAM v1.0's Buying Environment includes support for purchase approval workflow. While the solution provides a default-secure, email-based workflow out of the box for either rapid adoption or pilot purposes, it is designed to be tightly integrated into a company's existing purchase approval processes using standards-based api's and adapters.
An administrator of ROAM v1.0 assigns users within the buying environment to the role of either buyer or approver and enforces the security of each. The system maintains the current state of approval (Submitted, Approved, Rejected, or More Info Needed). The user and purchase approver can be notified as that state changes.
Purchase approvers get a secure web-based inbox showing them all items that are either waiting for activity or that they have previously acted on. With each item, they have access to all information on the quote page and thus a complete understanding of the potential acquisition and its costs.
XYZ Corp
Quote Approval Form
Company Overview
Products
FAQ
Contact
Close Window

FIGURE 17(A)

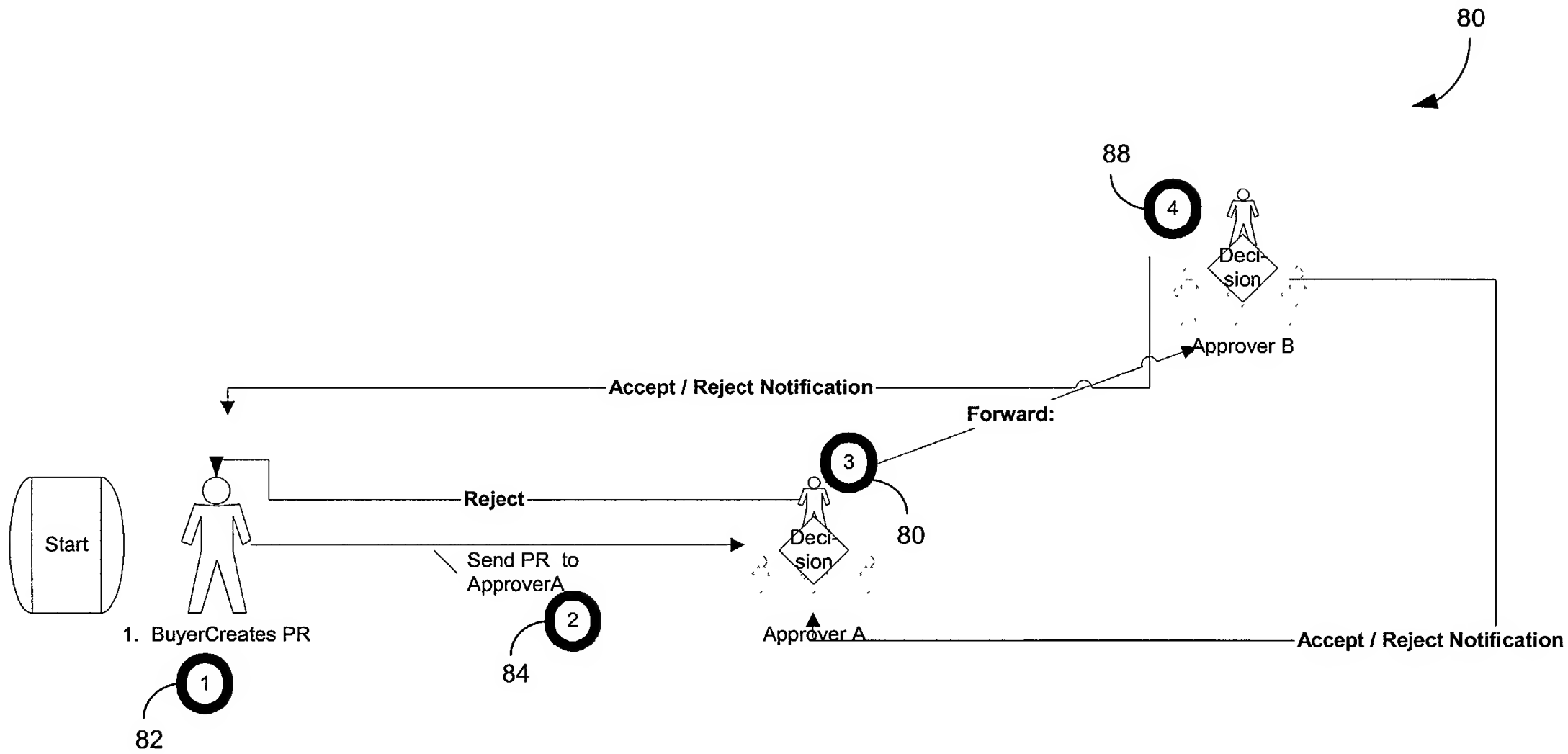

FIGURE 17(B)

Inventor: Peter A. Lucas et al.
Serial No.
Filed: February 15, 2002
Title: Management Systems and Methods for Maximizing Return on Assets
Attorney Docket L9090/269380
Attorney Geoff L. Sutcliffe
Phone 404 815 6330
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Inventor: Peter A. Leeds et al.
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Title: Management Systems and Methods for Maximizing Return on Assets
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Attorney Geoff L. Sutcliffe
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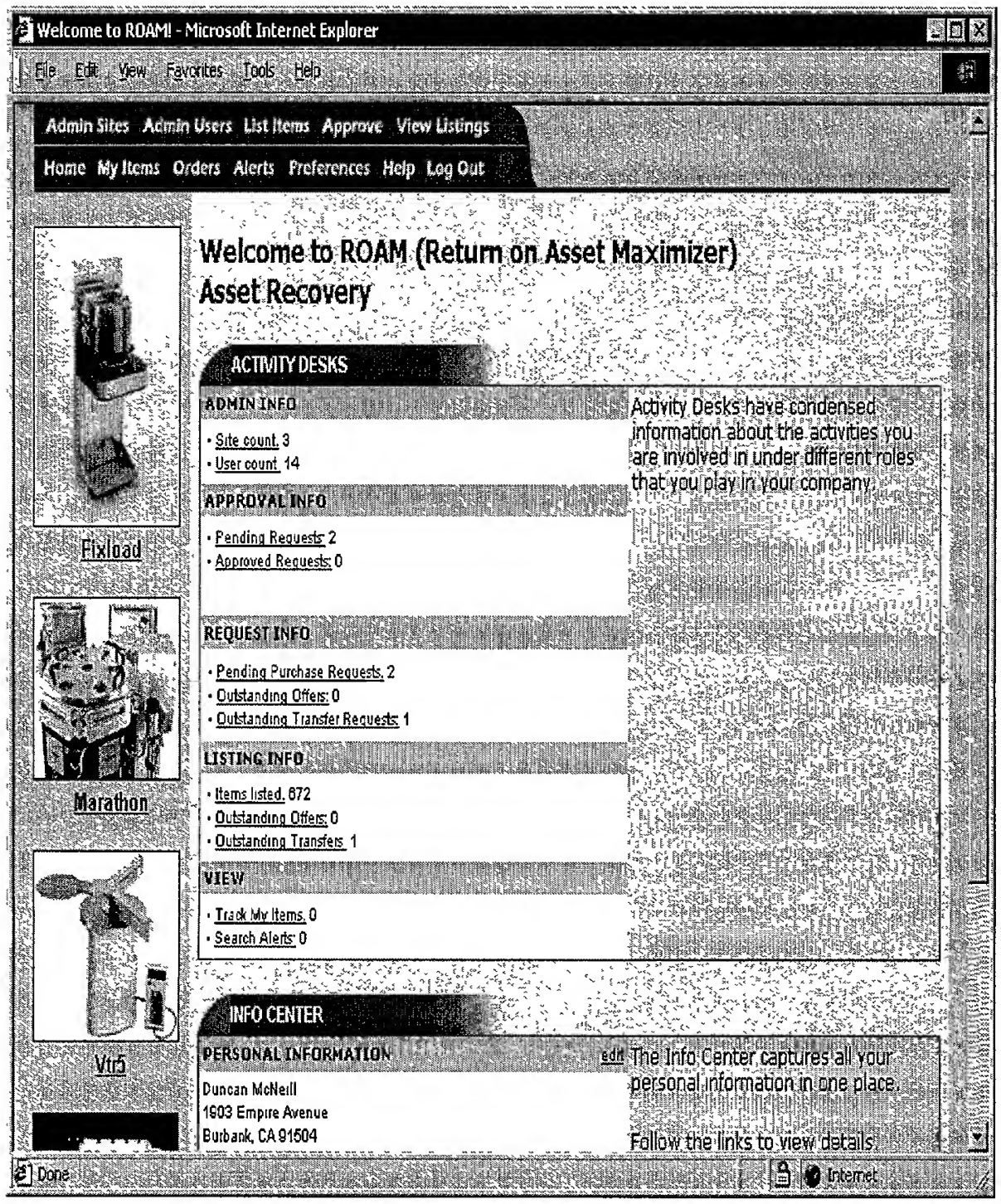

FIGURE 17(C)

Inventor: Peter A. Loeds et al
Serial No.
Filed: February 15, 2002
Title: Management Systems and Methods for Maximizing Return on Assets
Attorney Docket: L9090/269380
Attorney: Geoff L. Sutcliffe
Phone: 404 815 6530
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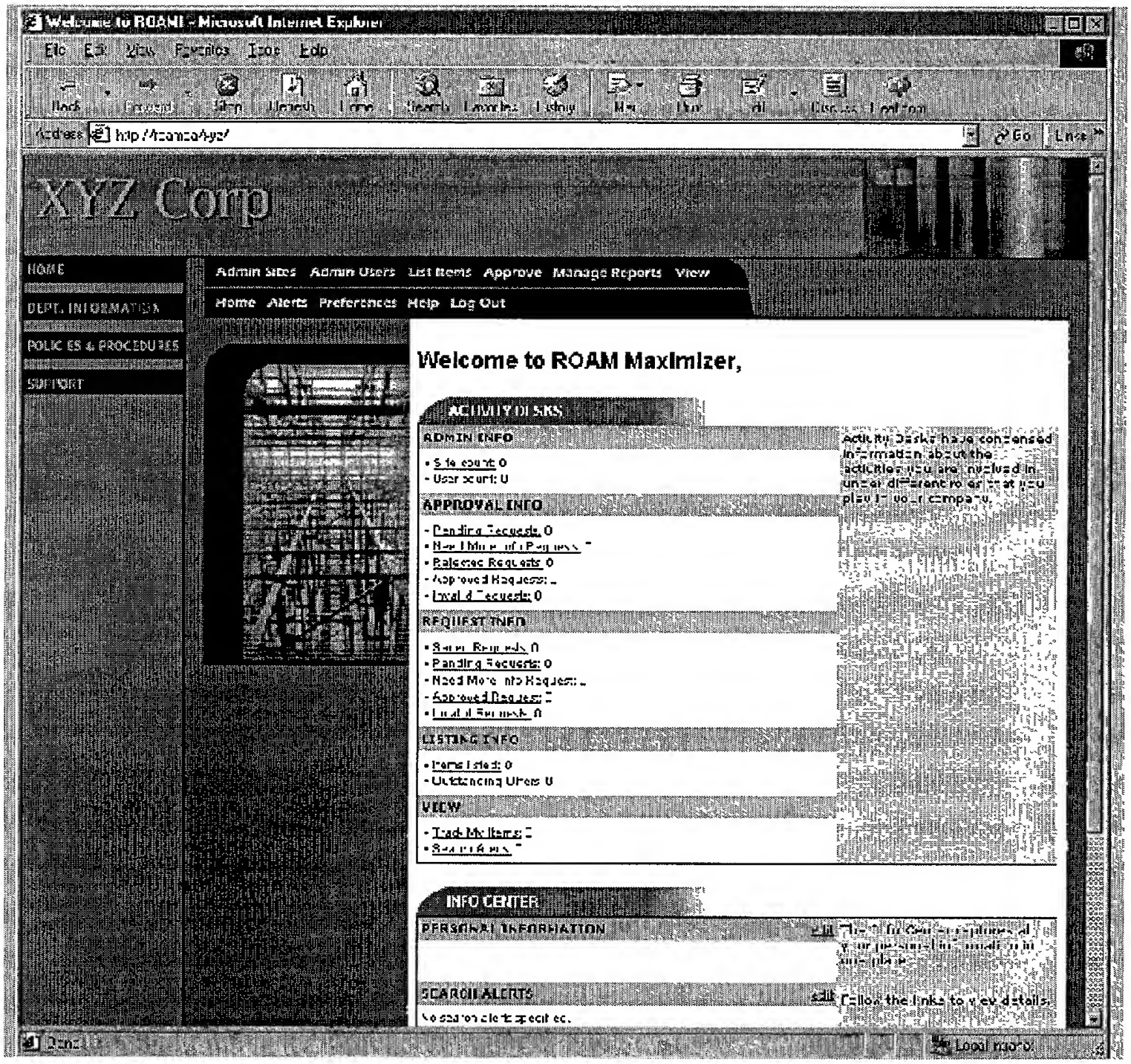

FIGURE 17(D)

Inventor: Peter A Leeds et al
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Filed: February 15, 2002
Title: Management Systems and Methods for Maximizing Return on Assets
Attorney Docket L9090/269380
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Phone 404 815 6530
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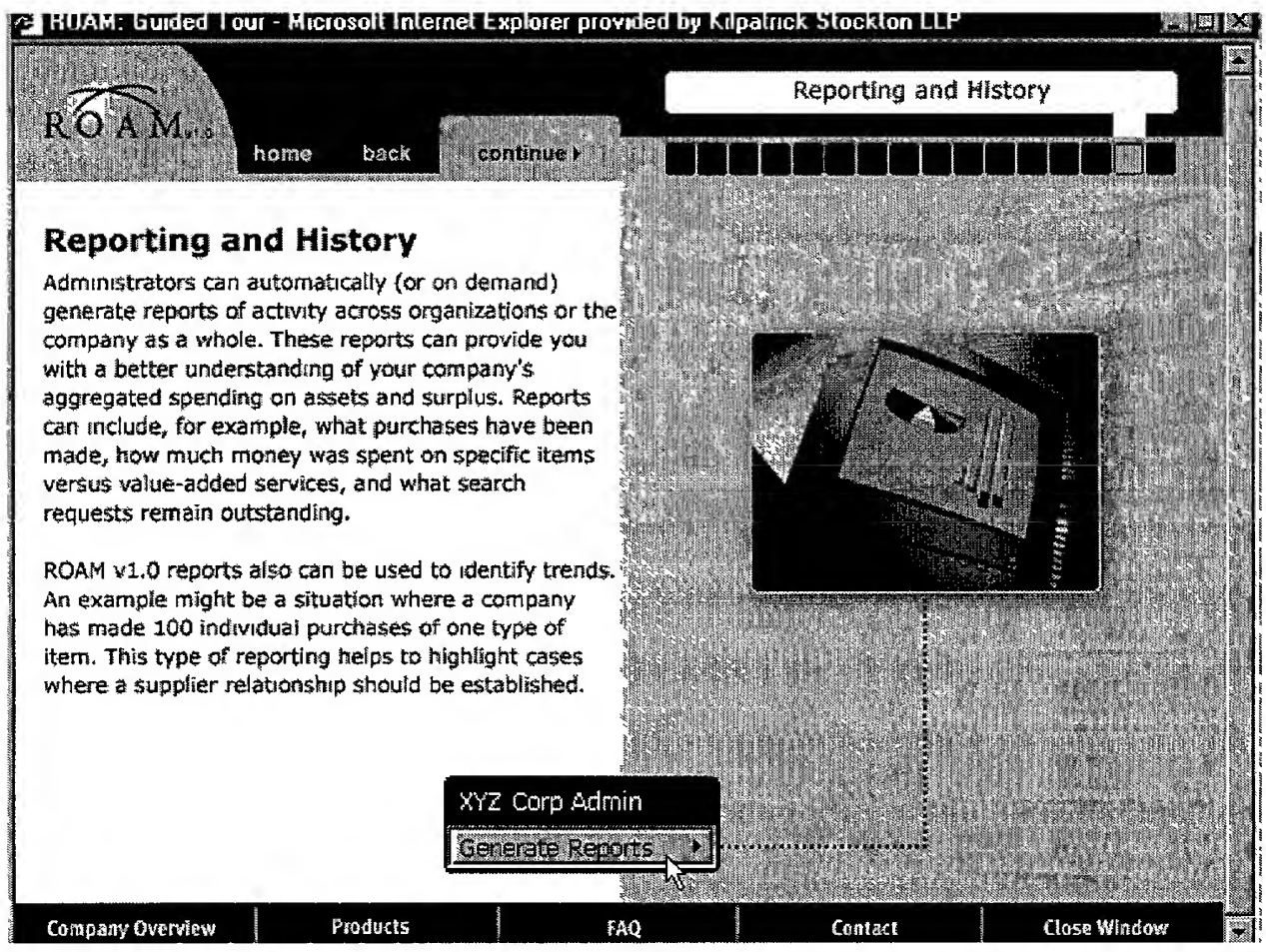

FIGURE 18(A)

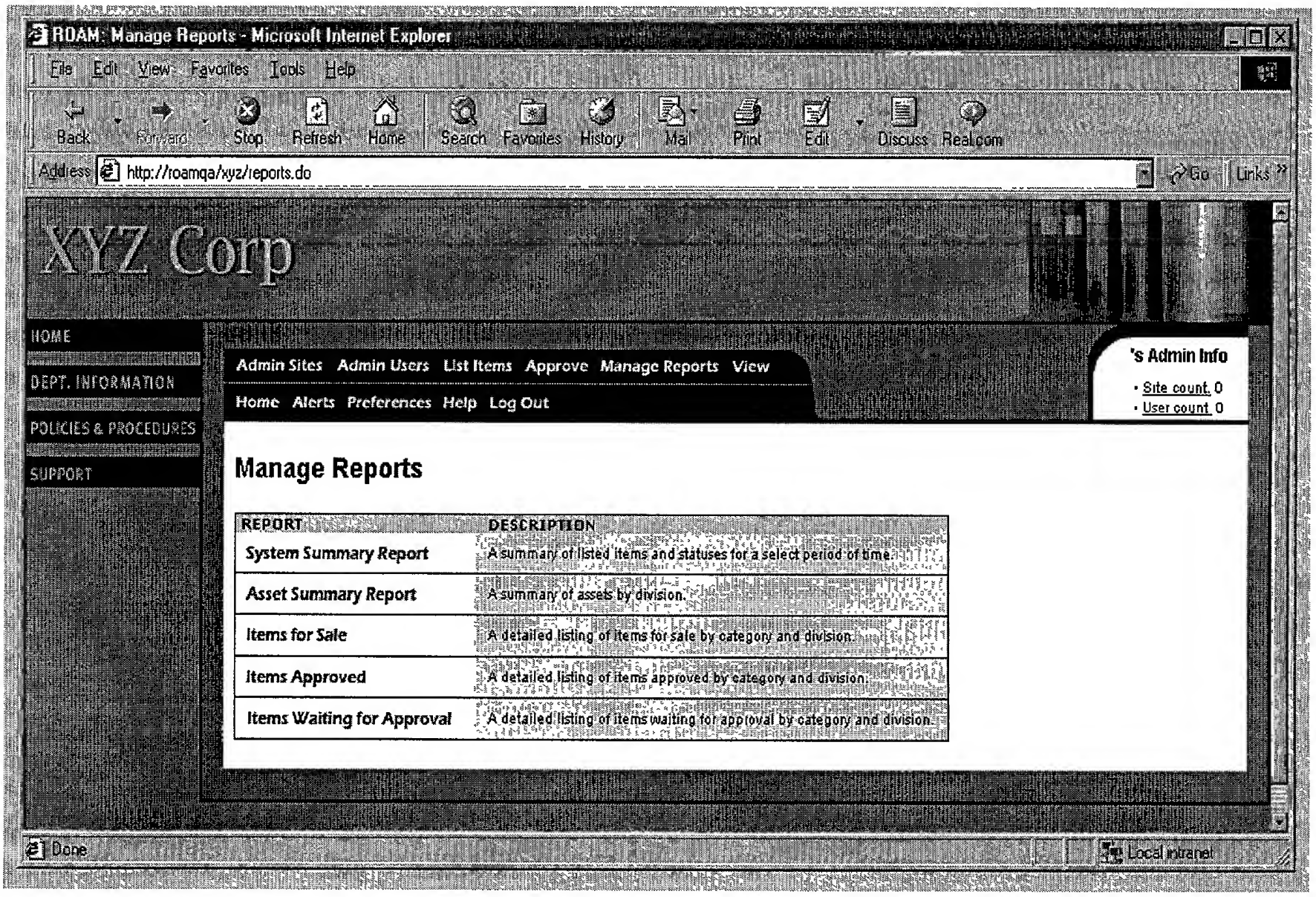
ROAM: Manage Reports - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss RealCom
Address http://roamqa/xyz/reports.do
Go Links
XYZ Corp
HOME
DEPT. INFORMATION
POLICIES & PROCEDURES
SUPPORT
Admin Sites Admin Users List Items Approve Manage Reports View
Home Alerts Preferences Help Log Out
's Admin Info
Site count 0
User count 0
Manage Reports
REPORT
DESCRIPTION
System Summary Report
A summary of listed items and statuses for a select period of time.
Asset Summary Report
A summary of assets by division.
Items for Sale
A detailed listing of items for sale by category and division.
Items Approved
A detailed listing of items approved by category and division.
Items Waiting for Approval
A detailed listing of items waiting for approval by category and division.
Done
Local intranet

FIGURE 18(B)

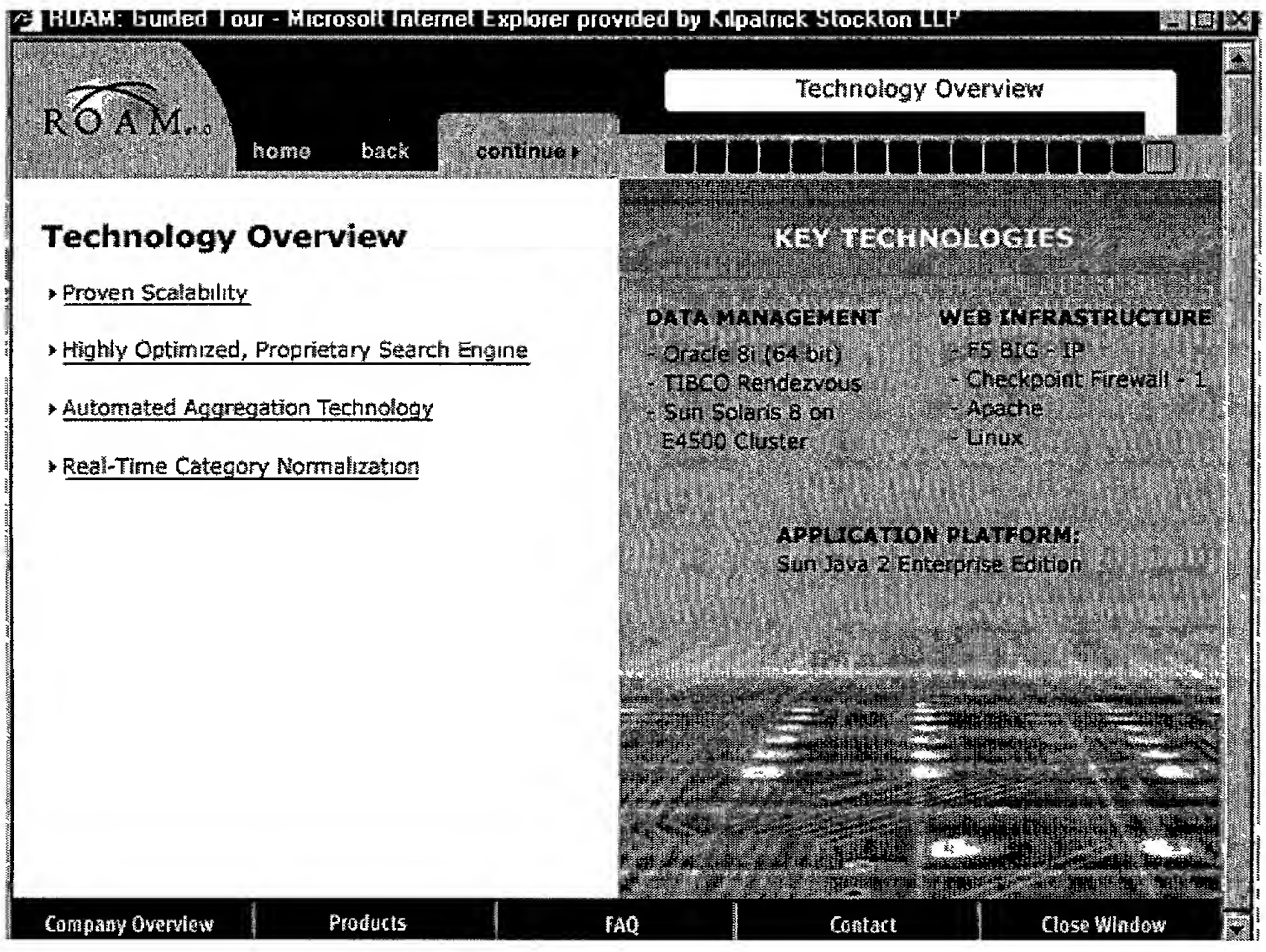
ROAM: Guided Tour - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP
ROAM
home
back
continue
Technology Overview
Technology Overview
Proven Scalability
Highly Optimized, Proprietary Search Engine
Automated Aggregation Technology
Real-Time Category Normalization
KEY TECHNOLOGIES
DATA MANAGEMENT
- Oracle 8i (64 bit)
- TIBCO Rendezvous
- Sun Solaris 8 on E4500 Cluster
WEB INFRASTRUCTURE
- F5 BIG - IP
- Checkpoint Firewall - 1
- Apache
- Linux
APPLICATION PLATFORM:
Sun Java 2 Enterprise Edition
Company Overview
Products
FAQ
Contact
Close Window

FIGURE 19

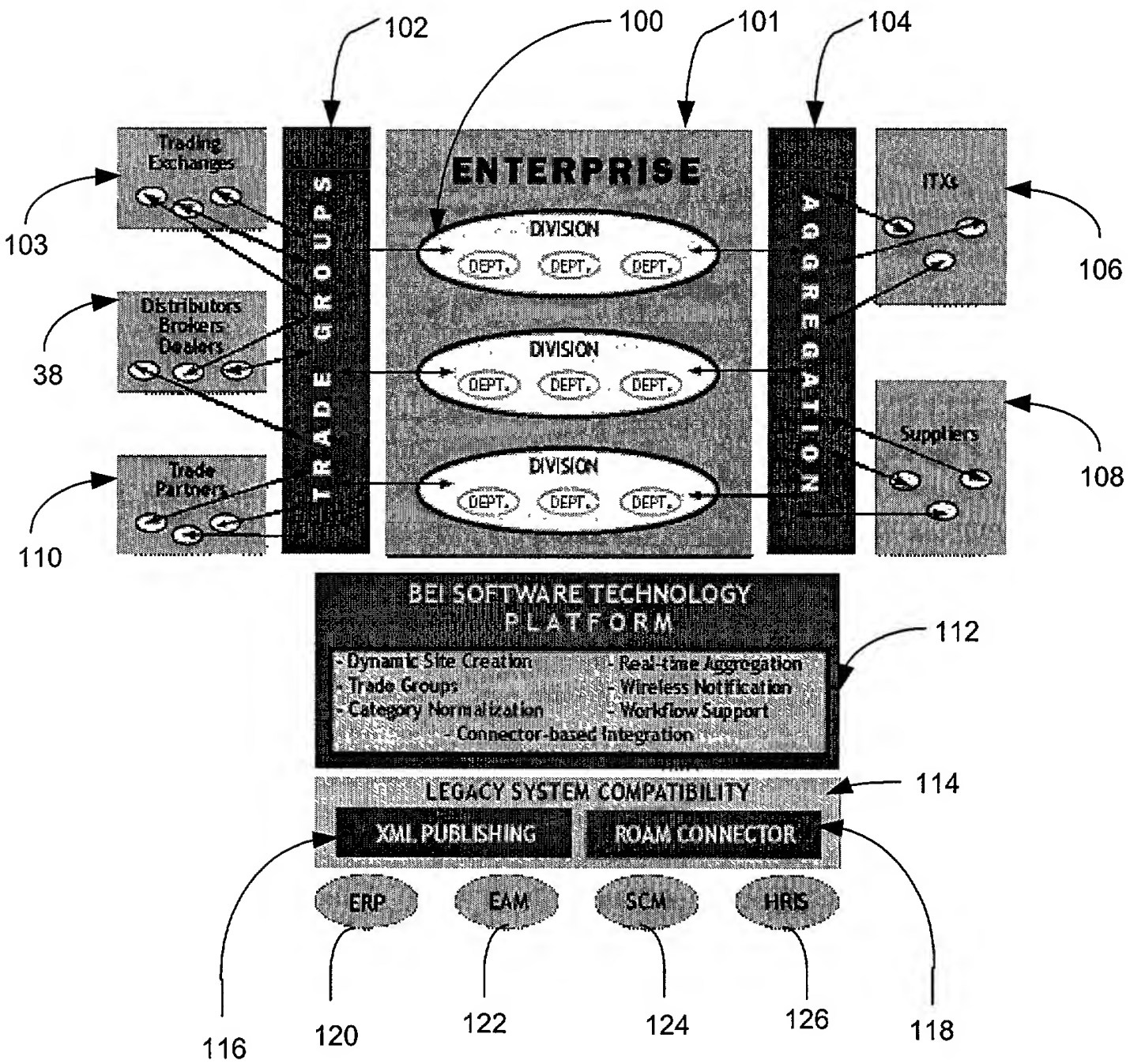
102
100
101
104
Trading Exchanges
103
Distributors Brokers Dealers
38
Trade Partners
110
TRADE GROUPS
ENTERPRISE
DIVISION
DEPT.
DEPT.
DEPT.
DIVISION
DEPT.
DEPT.
DEPT.
DIVISION
DEPT.
DEPT.
DEPT.
AGGREGATION
ITXs
106
Suppliers
108
BEI SOFTWARE TECHNOLOGY PLATFORM
- Dynamic Site Creation
- Trade Groups
- Category Normalization
- Connector-based Integration
- Real-time Aggregation
- Wireless Notification
- Workflow Support
112
LEGACY SYSTEM COMPATIBILITY
114
XML PUBLISHING
ROAM CONNECTOR
ERP
EAM
SCM
HRIS
116
120
122
124
126
118

FIGURE 20

ROAM Architecture (Logical)

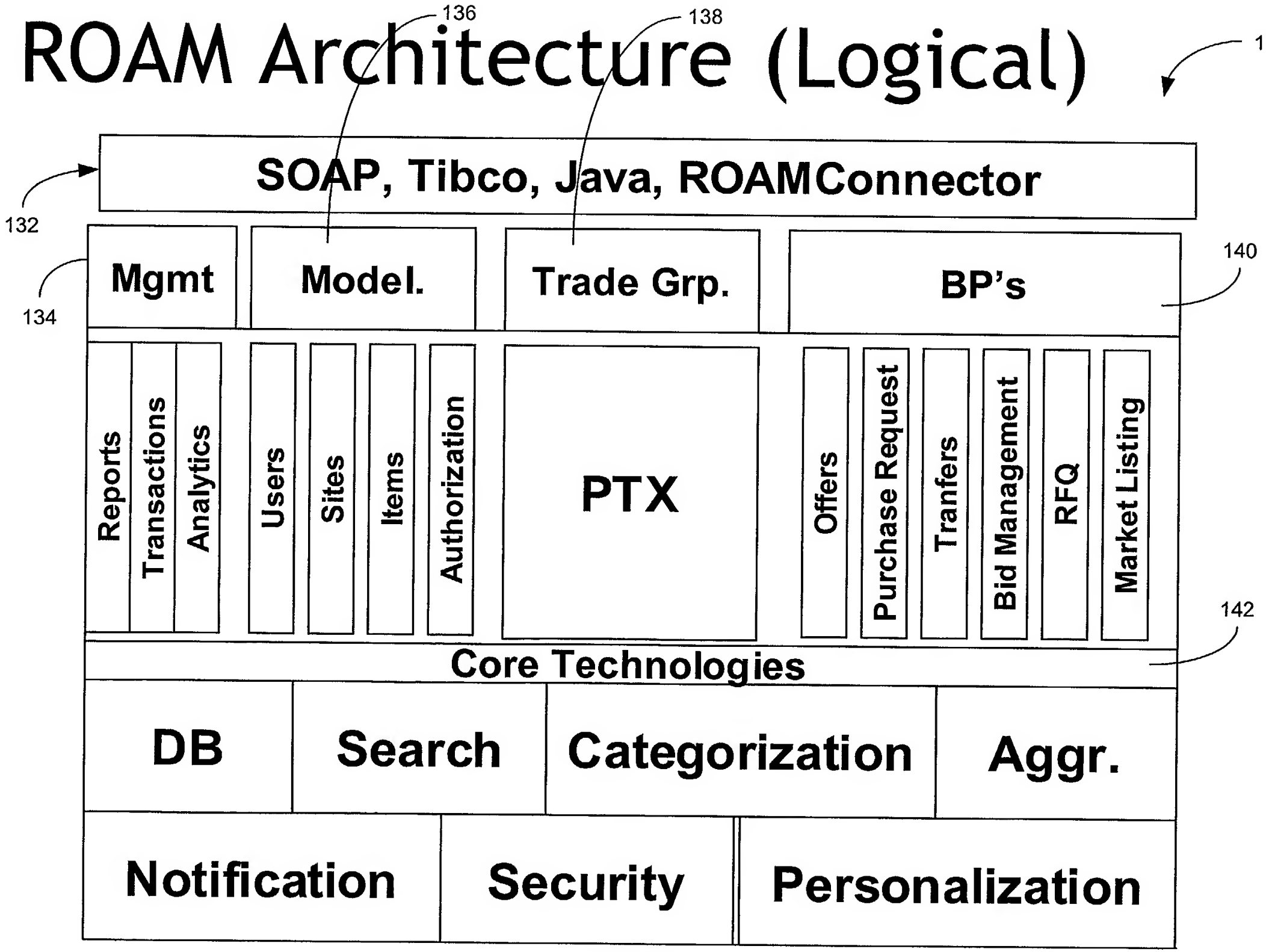

FIGURE 21

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Title: Management Systems and Methods for Maximizing Return on Assets
Attorney Docket L9090/269380
Attorney Geoff L. Sutcliffe
Phone 404 815 6530
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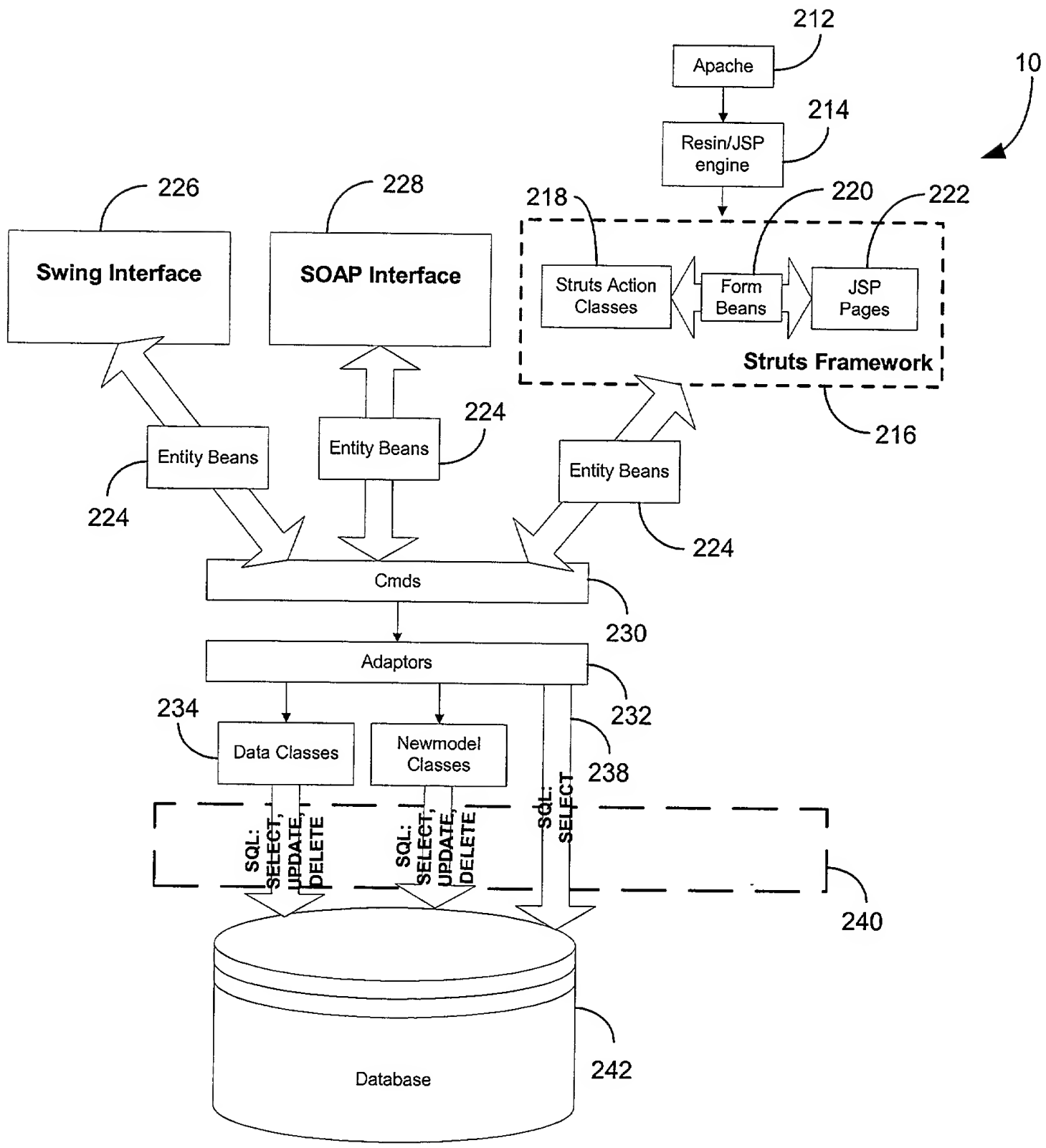
212
Apache
10
214
Resin/JSP engine
226
228
218
220
222
Swing Interface
SOAP Interface
Struts Action Classes
Form Beans
JSP Pages
Struts Framework
216
224
Entity Beans
Entity Beans
Entity Beans
224
224
Cmds
230
Adaptors
232
234
Data Classes
Newmodel Classes
238
SQL: SELECT, UPDATE, DELETE
SQL: SELECT, UPDATE, DELETE
SQL: SELECT
240
Database
242

FIGURE 22(A)

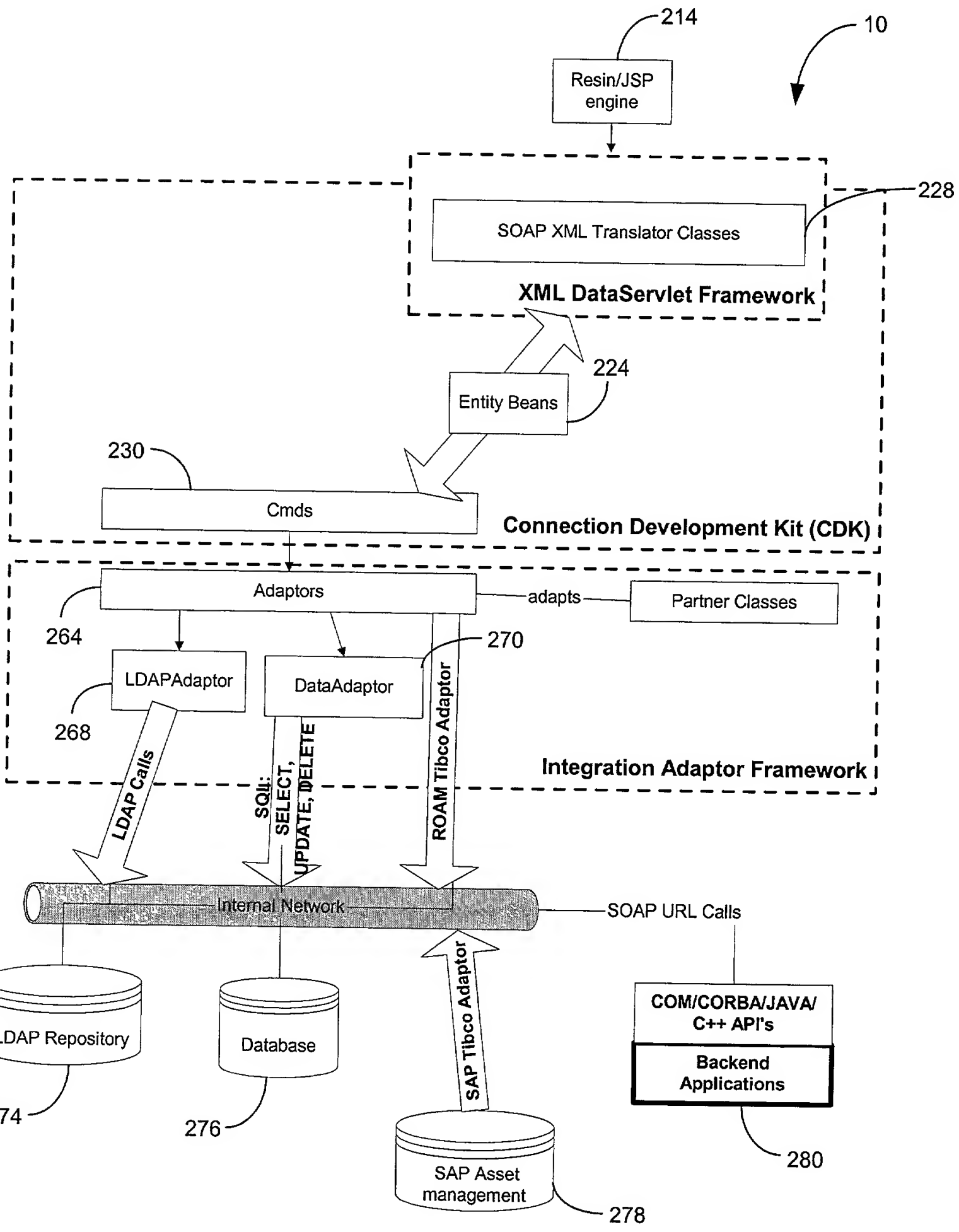
214
10
Resin/JSP engine
228
SOAP XML Translator Classes
XML DataServlet Framework
224
Entity Beans
230
Cmds
Connection Development Kit (CDK)
Adaptors
adapts
Partner Classes
264
270
LDAPAdaptor
DataAdaptor
268
LDAP Calls
SQL: SELECT, UPDATE, DELETE
ROAM Tibco Adaptor
Integration Adaptor Framework
Internal Network
SOAP URL Calls
SAP Tibco Adaptor
LDAP Repository
Database
COM/CORBA/JAVA/ C++ API's
Backend Applications
274
276
280
SAP Asset management
278

FIGURE 22(B)

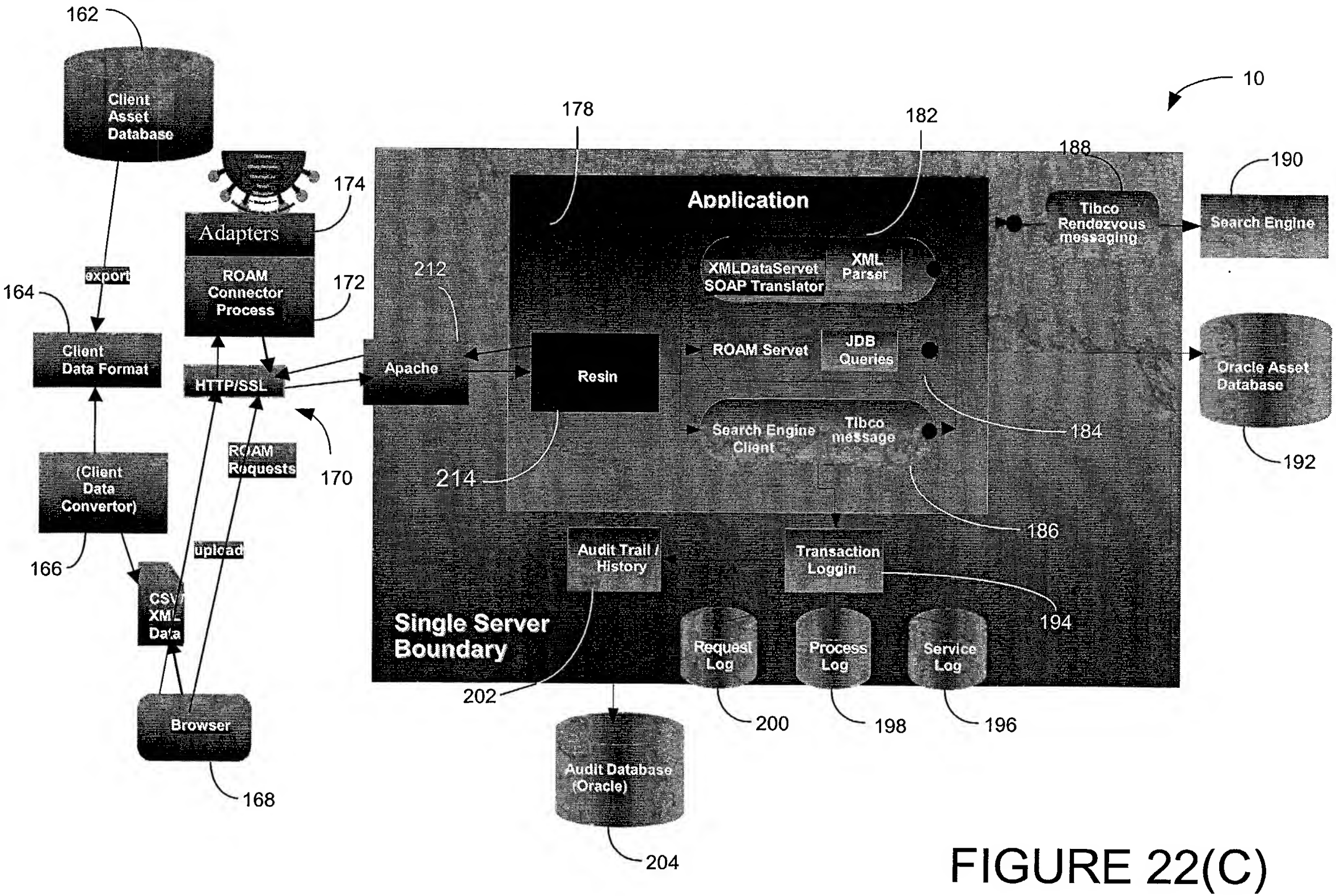

FIGURE 22(C)

Inventor: Peter A. Leeds et al.
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Filed: February 15, 2002
Title: Management Systems and Methods for Maximizing Return on Assets
Attorney Docket L9090/269380
Attorney Geoff L Sutcliffe
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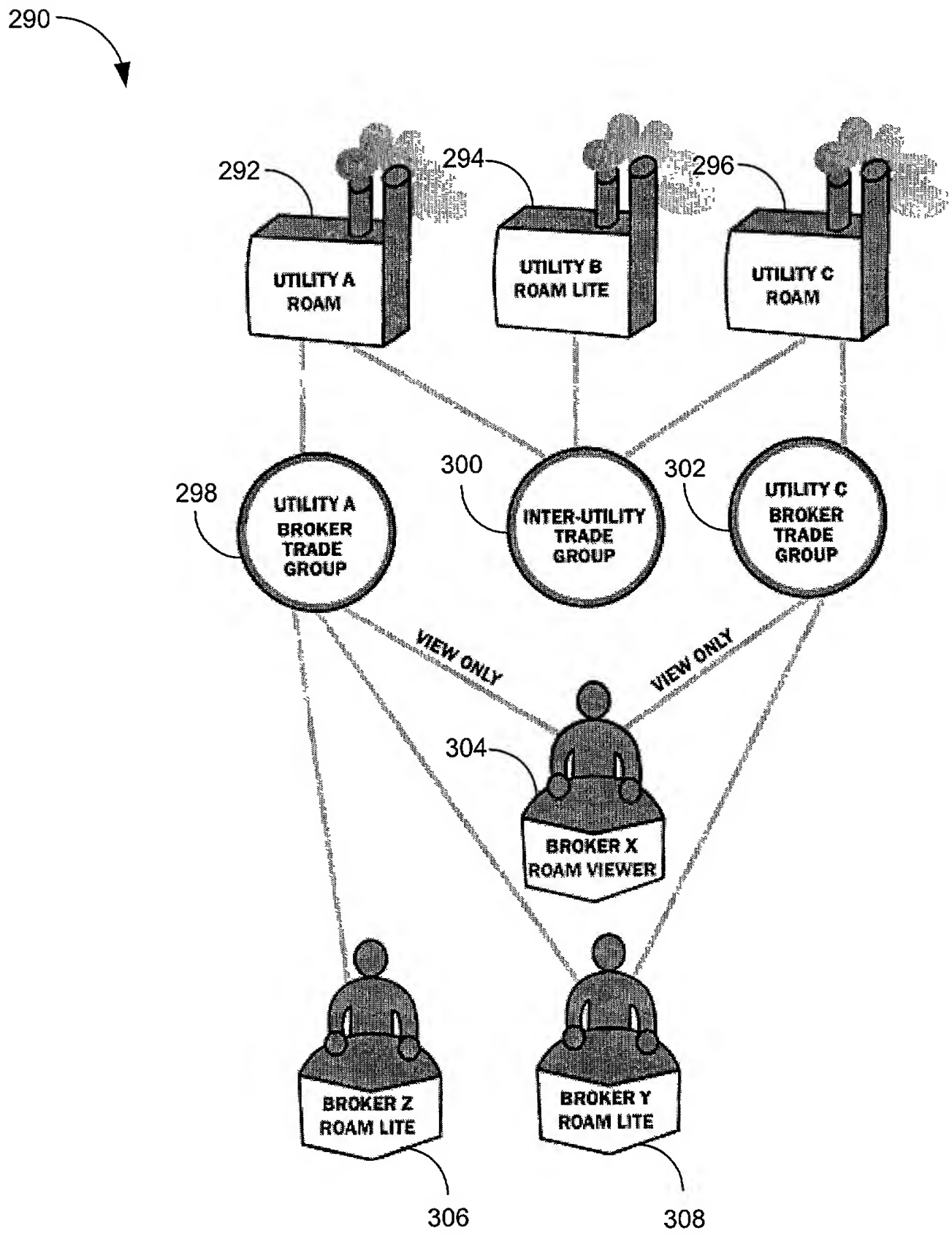
290
292
294
296
UTILITY A ROAM
UTILITY B ROAM LITE
UTILITY C ROAM
298
300
302
UTILITY A BROKER TRADE GROUP
INTER-UTILITY TRADE GROUP
UTILITY C BROKER TRADE GROUP
VIEW ONLY
VIEW ONLY
304
BROKER X ROAM VIEWER
BROKER Z ROAM LITE
BROKER Y ROAM LITE
306
308

FIGURE 23